

Kortlægning af kemiske stoffer i forbrugerprodukter

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Kortlægning af kemiske stoffer i hårstylingsprodukter

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Forord

Miljøstyrelsen har iværksat en indsats på en række forbrugerprodukter med henblik på at kortlægge området og belyse befolkningens udsættelse for kemiske stoffer i forbrugerprodukter og risikoen forbundet herved. Dette projekt "Kortlægning af kemiske stoffer i hårstylingsprodukter" er et led i denne indsats.

Undersøgelsen er gennemført for og finansieret af Forbrugersektionen, Miljøstyrelsen.

Undersøgelsen er gennemført i en periode på 3 måneder (oktober - december) i 2001. Undersøgelsen er gennemført af følgende medarbejdere fra dk-TEKNIK ENERGI & MILJØ:

- Projektleder, civilingeniør Pia Brunn Poulsen
- Civilingeniør, Leif Hoffmann
- Forskningschef, Allan Astrup Jensen
- Sekretær, Birgitte Bo har stået for indtastning af oplysninger om hårstylingsprodukterne i databasen, samt oversættelse af rapporten.

Projektet er fulgt af følgende medarbejdere fra Miljøstyrelsen:

- Claus C. C. Ankjærgaard
- Annette Orloff
- Anette Albjerg Ejersted

INCI-navnet anvendes generelt for ingredienserne i hårstylingsprodukterne gennem hele rapporten. De kemiske navne (på engelsk) for ingredienserne kan findes i bilagene til rapporten.

Sammenfatning og konklusioner

Mange mennesker bruger dagligt hårstylingprodukter af den ene eller anden art (hårspray/hårlak, gele, gelespray, creme, skum/mousse, voks eller hårudglatningsmiddel), som alle har det til fælles, at de tilføres håret med det formål at forme og sætte det, og at de ikke skal skylles ud. Fælles for hårstylingprodukterne er, at de kommer i kontakt med hovedbunden, og at de forsvinder ved fordampning eller skylles ud i vandmiljøet, når håret vaskes. Herudover smøres mange hårstylingprodukter ud i hænderne inden påføring. Ved brug af hårspray er der desuden risiko for human eksponering ved indånding.

Der har været en del debat vedrørende hårstylingprodukter. Det tyske forbrugerblad Öko test har i 1999 undersøgt 46 forskellige hårspray og i 2001 26 forskellige skumprodukter, hvoraf en stor del har vist sig at indeholde stoffer, der mistænkes for at have hormonforstyrrende effekter samt skadelige effekter hos vandlevende organismer - på trods af at alle stoffer i produkterne er lovlige (Öko test, 1999; 2001).

Forbrugerinformationen har i foråret 2001 kortlagt indholdet af kemiske stoffer i 76 forskellige hårstylingprodukter. 16 stoffer blev udvalgt til en miljø- og sundhedsvurdering, og det blev konkluderet, at 11 af de 16 undersøgte stoffer har en skadelig effekt på miljø og/eller sundhed.

Formålet med dette projekt er at foretage en kortlægning af kemiske stoffer i hårstylingprodukter i Danmark og foretage en miljø- og sundhedsscreening af de væsentligste stoffer, der indgår i de undersøgte hårstylingprodukter. I forbindelse med kortlægningen er der oprettet en database over de undersøgte hårstylingprodukter og deres ingredienser samt miljø- og sundhedsoplysninger for udvalgte kemiske stoffer.

Kortlægning

Kortlægningen af hårstylingprodukter i Danmark er primært foretaget ved indkøb af hårstylingprodukter. Der er indkøbt produkter i både detailhandel og hos frisører. Enkelte postordreprodukter er også anskaffet. Enkelte importører/producenter har leveret trykte indholdsdeklarationer. Der er i alt inddraget oplysninger om 328 hårstylingprodukter. Produkterne fordeler sig på hårspray-, voks-, gele-, gelespray-, skum-, creme- og hårudglatningsmiddelprodukter.

Der er ikke tale om en total kortlægning af hårstylingprodukter i Danmark, da der findes langt flere hårstylingprodukter end de undersøgte produkter. Der findes formentlig op mod 500 forskellige hårstylingprodukter i Danmark.

I de 328 hårstylingprodukter er der fundet 585 forskellige kemiske stoffer, hvoraf nogle er langt mere hyppige end andre. Ca. 70 stoffer forekommer i mere end 10 produkter. Ca. 240 stoffer indgår kun i et enkelt produkt. Hårstylingprodukterne indeholder i gennemsnit ca. 13 forskellige kemiske stoffer, men antallet af ingredienser varierer fra 3 (i en voks og en hårspray) til 34 ingredienser (i en hårspray).

De hyppigste ingredienser i hårstylingsprodukterne er parfume, samt vand og denatureret alkohol, der anvendes som opløsningsmiddel. Ellers indeholder hårstylingsprodukter som vigtigste ingrediens filmdannere/bindere, der har til formål at stabilisere håret, samt blødgøringsmidler, diverse opløsningsmidler, viskositetsregulerende midler, overfladeaktive stoffer, emulgatorer, konserveringsmidler, kompleksdannere, eventuelle drivmidler og pH-regulatorer. Herudover kan hårstylingsprodukter tilsættes stoffer som antistatiske midler, skumdæmpere, oxidationsmidler, vitaminer, fugtbevarende midler, absorberingsmidler, UV-filtre og andre additiver.

Miljø- og sundhedsscreening

Af de i alt 585 kemiske stoffer fundet i de undersøgte hårstylingsprodukter blev ca. 160 stoffer udvalgt til en miljø- og sundhedsscreening. Kriteriet for udvælgelsen til screeningen var bl.a. en formodning om eventuelle miljø- eller sundhedsskadelige effekter for disse stoffer. Desuden blev de hyppigst anvendte ingredienser udvalgt til screeningen.

Det gælder generelt for screeningen, at vurderingen af de kemiske stoffer udelukkende er foretaget på baggrund af oplysninger om miljø- og sundhedsmæssige forhold, der har været tilgængelige i de udvalgte databaser.

Sundhedsscreening

Generelt er de fundne sundhedsmæssige oplysninger et udtryk for stoffernes sundhedsmæssige egenskaber i ren form. Stofferne vil således forekomme i væsentligt lavere koncentrationer i hårstylingsprodukterne end den koncentration, der er anvendt for stoffet i de toksikologiske forsøg. Desuden er mange stoffer undersøgt for administrationsveje, der ikke er relevante for hårstylingsprodukter (bl.a. oral indtagelse), dvs. der ud over at være få oplysninger til brug for sundhedsscreeningen, således også er få relevante oplysninger. En mere detaljeret litteraturundersøgelse og vurdering af de enkelte indholdsstoffer vil kunne tage højde for dette.

Ingredienserne kan således komme til at fremstå mere problematiske end de i virkeligheden er som ingrediens i hårstylingsprodukterne.

Sundhedsscreeningen viser at:

- 11 stoffer ikke er sundhedsskadelige
- 40 stoffer er irriterende for hud og/eller øjne
- 3 stoffer er ætsende
- 1 stof er giftigt (ved indtagelse)
- 28 stoffer kan fremkalde allergi
- 15 stoffer har udvist kræftfremkaldende, reproduktionsskadende eller mutagene egenskaber i dyreforsøg

For de resterende 62 undersøgte stoffer var det ikke muligt at finde nogle sundhedsoplysninger i de anvendte tox-databaser.

Hovedparten af de stoffer, der er ætsende eller irriterende i deres rene form, indgår i mindre mængder i hårstylingsprodukterne og vil formentlig kun fremkalde meget milde eller slet ingen irriterende reaktioner ved brug. Opløsningsmidlerne, der generelt indgår i større mængder, er også irriterende stoffer og vil således kunne virke irriterende ved brug.

Af de udvalgte stoffer har 28 stoffer allergifremkaldende egenskaber. Det er primært konserveringsmidler, farvestoffer/pigmenter, pH-regulatorer og kompleksdannere, der udviser allergiske egenskaber.

15 af de udvalgte stoffer har udvist kræftfremkaldende, reproduktionsskadende eller mutagene egenskaber i dyreforsøg. For hovedparten af disse stoffer forekommer der ikke nogen EU-klassificering eller vurdering af IARC (WHO's kræftforskningscenter, International Agency for Research on Cancer). Det er uklart om de dyreforsøg, der er fundet oplysninger om, vil give anledning til en klassificering som muligt kræftfremkaldende, reproduktionsskadende eller mutagent, hvis der forelå en IARC-vurdering. Der er således tale om en worst case-vurdering for hovedparten af disse stoffer, men to stoffer (isobutan og petrolatum) skal dog klassificeres som muligvis kræftfremkaldende for mennesket (EU Carc2), dvs. at det muligvis kan fremkalde kræft hos mennesker. For petrolatum findes flere CAS-numre, hvor det kun i den ene form er muligt kræftfremkaldende. For isobutan gælder klassificeringen kun, hvis det indeholder mere end 0,1% butadien. For begge stoffer gælder, at de ikke bør anvendes i den form, der muligvis er kræftfremkaldende.

Ved normal brug vil den største udsættelse for stofferne forekomme ved brug af sprayprodukter som hårspray og gelespray. Her er der risiko for, at andre områder end håret eksponeres, eksempelvis ansigt (hud og via indånding), arme, hænder og hovedbund. For de mere tyktflydende eller faste produkter som skum, gele, voks og creme, der oftest smøres ud i hånden, inden de masseres ind i håret, sker eksponeringen via håndfladerne eller hovedbunden. Hænderne vaskes dog forholdsvist hurtigt efter. Hovedbunden vil formentlig være det område, der er mest udsat, da hårstylingsprodukterne ved brug kommer i kontakt med hovedbunden og for en længere periode af gangen.

Miljøscreening

Miljøscreeningen dækker udelukkende udvalgte stoffers akvatiske toksicitet og deres forventede skæbne i miljøet på baggrund af deres nedbrydelighed og evne til bioakkumulering. En eksponeringsvurdering er ikke foretaget, og der er således blot tale om stoffernes *potentielle* miljøbelastende egenskaber.

Miljøscreeningen viser, at:

- 38 stoffer vurderes at være ikke miljøbelastende
- 22 stoffer vurderes at være mindre miljøbelastende
- 27 stoffer vurderes at være potentielt miljøbelastende
- 26 stoffer vurderes at være potentielt meget miljøbelastende

For de resterende 47 undersøgte stoffer var det ikke muligt at finde nogle miljøoplysninger i de anvendte økotox-databaser.

De potentielt miljøbelastende stoffer er primært blødgøringsmidler, overfladeaktive stoffer og farvestoffer/pigmenter, og det er primært konserveringsmidler, blødgøringsmidler og UV-filtre, der er potentielt meget belastende for miljøet.

Stofferne i hårstylingsmidlerne kommer i kontakt med vandmiljøet, når håret vaskes efter brug af hårstylingsmidlerne. Det er dog uklart hvor store mængder, der er tale om. En vis mængde af hårstylingsproduktet må formodes at fordampe (for spray) eller smitte af i tøj, sengetøj, hænder, børster m.m. inden hårvask. Under alle omstændigheder bør potentielt miljøbelastende og potentielt meget miljøbelastende stoffer udskiftes med ikke- eller mindre miljøbelastende stoffer. Screeningen viser, at der findes og bruges mindre miljøbelastende alternativer inden for alle grupper

af stoffer. Brug af mindre miljøbelastende stoffer må dog ikke medføre øget sundhedsrisici i stedet og vice versa.

Forslag til videre arbejde

Den foreliggende undersøgelse omfatter i alt 328 forskellige hårstylingsprodukter som kun udgør en del af det danske marked. Skal den oprettede database være et rigtigt stærkt værktøj og give det totale billede af hårstylingsprodukter i Danmark, bør den suppleres med følgende informationer:

- Miljø- og sundhedsscreening af de resterende kemiske stoffer.
- Eventuelt en mere detaljeret sundhedsvurdering af udvalgte stoffer.
- En løbende kortlægning af hårstylingsprodukter, der markedsføres i Danmark

Summary and conclusions

Daily, many people use hairstyling products of some kind (hair spray, gel, gel spray, cream, mousse, wax or hair straightener) which all have in common that they are put into the hair with the purpose to form and style it and that they shall not be washed out. Common to the hair styling products is that they get in contact with the scalp and that they disappear through evaporation or are washed away into the water environment when the hair is washed. Furthermore, many hairstyling products are smeared into the hands before they are put into the hair. By use of hair spray there is also a risk of human exposure through inhalation.

There has been some debate regarding hairstyling products. The German consumer magazine Öko test has in 1999 examined 46 different hair sprays and in 2001 26 different mousse products of which quite a lot have turned out to contain substances that are suspected of having hormone disruptive effects as well as harmful effects on water living organisms – despite of all substances in the products being legal (Öko test, 1999; 2001).

Forbrugerinformationen (the Danish Consumer Information) has in the spring of 2001 mapped the contents of chemical substances in 76 different hairstyling products. 16 substances were selected for an environmental and health assessment and the conclusion was that 11 of the 16 examined substances have a harmful effect on environment and/or health.

The purpose of this project is to carry out a survey of chemical substances in hairstyling products in Denmark and to carry out a screening for environmental and health effects of the most important substances that form a part of the examined hairstyling products. In connection with the survey a database of the examined hairstyling products and their constituents as well as environmental and health information for selected chemical substances is created.

Survey

The survey of hairstyling products in Denmark is primarily carried out through purchase of hairstyling products. The products are bought in both retail shops and at hairdressers'. A few mail order products have also been provided. A few importers/producers have delivered printed declarations of contents. In total information about 328 hairstyling products is collected. The products are divided into hair spray, wax, gel, gel spray, mousse, cream and hair straightener products.

It is not a complete survey of hairstyling products in Denmark as there are far more hairstyling products than the examined products. There are probably up to 500 different hairstyling products in Denmark.

In the 328 hairstyling products, 585 different chemical substances are found of which some are far more frequent than others. Approximately 70 substances are found in more than 10 products. Approximately 240 substances are only in one single product. The hairstyling products contain as an average approximately 13 different chemical substances but the number of constituents varies from 3 (in one wax and one hair spray) to 34 constituents (in one hair spray).

The most frequent constituents in the hairstyling products are perfume as well as water and denatured alcohol that are used as a solvent. Otherwise, the most important constituent in the hairstyling products is film formers/binders that are intended to stabilize the hair as well as emollients, various solvents, viscosity controlling agents, surfactants, emulsifying agents, preservatives, complexing agents, possible propellants and buffering agents. Furthermore, hairstyling products can be added substances as antistatic agents, antifoaming agents, oxidizing agents, vitamins, humectants, absorbents, U.V. absorbers and other additives.

Screening for environmental and health effects

From the total of 585 chemical substances in the examined hairstyling products approximately 160 substances were selected for a screening for environmental and health effects. The criterion for the selection for the screening was among other things an expectation of possible environmental or health damaging effects of these substances. Furthermore, the most frequently used constituents were selected to the screening.

Generally for the screening is that the assessment of the chemical substances is only carried out on basis of information about aspects with regard to environment and health that has been available in the selected databases.

Screening for health effects

Generally the found information with regard to health is an expression of the characteristics of the substances with regard to health in a pure form. Thus, the substances will be found in considerably smaller concentrations in the hairstyling products than the concentration that is used for the substance in the toxicological tests. Furthermore, many substances have been examined for administrative ways that are not relevant to hairstyling products (among others, oral intake). This means in addition to the few information for use in the screening for health effects there is also few relevant information. A more detailed literature search and an assessment of each constituent could take this into account.

Thus, the constituents can appear more problematic than they are in reality as a constituent in the hairstyling products.

The screening for health effects shows that:

- 11 substances are not damaging to health
- 40 substances are irritating to skin and/or eyes
- 3 substances are caustic
- 1 substance is poisonous (by oral intake)
- 28 substances can cause allergy
- 15 substances have shown carcinogenic, reproductive or mutagenic characteristics in animal experiments

For the remaining examined substances it was not possible to find any health information in the used toxic databases.

The majority of the substances that is caustic or irritating in their pure form are found in small amounts in the hairstyling products and will probably only cause very light or no irritating reactions at all when using the hairstyling products. The solvents which in general are found in larger amounts are also irritating substances and might be irritating when using the hairstyling products.

Of the selected substances 28 substances can cause allergic reactions. Primarily, preservatives, hair dyes/pigments, buffering agents and complexing agents show allergic characteristics.

15 of the selected substances have shown carcinogenic, reproductive or mutagenic characteristics in animal experiments. For the majority of these substances there is no EU classification or assessment by IARC (WHO's International Agency for Research on Cancer). It is unclear whether the found animal experiments will cause a classification as possibly carcinogenic, reproductive or mutagenic if an IARC assessment was available. Thus, it is a worst case assessment for the majority of these substances but two substances (isobutane and petrolatum) have to be classified as possibly carcinogenic for the human being (EU Carc2). This means that they might cause cancer to human beings. For petrolatum there are several CAS numbers where only one form might be carcinogenic. For isobutane the classification is only effective if the contents are more than 0.1% butadiene. Both substances ought not to be used in the form that might be carcinogenic.

At normal use the largest exposure to the substances will happen when using spray products as hair spray and gel spray. Here the risk is that other areas than the hair are exposed, for instance the face (skin and through inhalation), arms, hands and scalp. For the more viscous or firm products as mousse, gel, wax and cream that most often are smeared into the hand before they are massaged into the hair the exposure happens through the palms or the scalp. However, the hands are washed quite quickly after. The scalp will probably be the area that is most exposed as the hairstyling products in use get into contact with the scalp and for a longer period each time.

Screening for environmental effects

The screening for environmental effects covers exclusively the aquatic toxicity of selected substances and their expected fate in the environment on basis of their degradability and ability to bio accumulate. An exposure assessment is not carried out and thus the screening for environmental effects shows the potential environmental impact of the substances.

In the screening for environmental effects it is assessed that:

- 38 substances have no environmental hazard
- 22 substances have a low environmental hazard
- 27 substances are potentially environmentally hazardous
- 26 substances are potentially highly environmentally hazardous

For the rest of the examined substances it was not possible to find any environmental information in the used ecotox databases.

The substances that are potentially environmentally hazardous are primarily emollients, surfactants and hair dyes/pigments and it is primarily preservatives, emollients and U.V. absorbers that are potentially highly environmentally hazardous.

The substances in the hairstyling products get into contact with the water environment when the hair is washed after use of the hairstyling products. However, the amount is unknown. A certain amount of the hairstyling product is assumed to evaporate (for spray) or come off onto clothes, bedding, hands, brushes etc. before being washed. Anyhow, substances that might be potentially environmentally hazardous or potentially highly environmentally hazardous ought to be replaced by substances that have no or a low environmental hazard. The

screening shows that alternatives that have a low environmental hazard are available and used within all groups of substances. However, use of substances that have a low environmental hazard must not result in increased health risks instead and vice versa.

Suggestions for further work

The present investigation includes in total 328 different hairstyling products that only forms a part of the Danish market. If the created database is to be a really strong tool and give the total picture of hairstyling products in Denmark it ought to be complemented with the following information:

- A screening for environmental and health effects of the remaining chemical substances.
- Perhaps a more detailed health assessment of selected substances.
- A complete survey of hairstyling products that are marketed in Denmark (primarily saloon products shall be added to the database).

1 Indledning

Formålet med dette projekt er at foretage en kortlægning af kemiske stoffer i hårstyling produkter i Danmark og foretage en miljø- og sundhedsscreening af de væsentligste stoffer, der indgår i de undersøgte hårstyling produkter.

Følgende aktiviteter er indeholdt i projektet:

- Kortlægning af hårstyling produkter på det danske marked. Produkterne er købt eller anskaffet fra importøren/producenten.
- Udvikling af en database over de indsamlede hårstyling produkter.
- Udvælgelse af de væsentligste kemiske stoffer i hårstyling produkterne til en miljø- og sundhedsscreening.
- Miljø- og sundhedsscreening af de udvalgte kemiske stoffer.

Projektet giver et billede af indholdet af kemiske stoffer i hårstyling produkter og disses miljø- og sundhedsmæssige effekter. Screeningen vil medvirke til at pege på og anbefale stoffer, som bør underkastes en detaljeret miljø- og sundhedsvurdering.

Projektet er gennemført i løbet af en forholdsvis kort tidsperiode (3 måneder), hvorfor der er sat de begrænsninger, at der indsamles i alt ca. 300 hårstyling produkter, og at der screenes omkring 140 kemiske stoffer for deres miljø- og sundhedsmæssige egenskaber.

2 Baggrund

Mange mennesker bruger dagligt hårstylingsprodukter af den ene eller anden art (hårspray/hårlak, gele, gelespray, creme, skum/mousse, voks eller hårudglatningsmiddel). Fælles for hårstylingsprodukterne er, at de kommer i kontakt med hovedbunden, og at de forsvinder ved fordampning eller skylles ud i vandmiljøet, når håret vaskes. Herudover smøres mange hårstylingsprodukter ud i hænderne inden påføring. Ved brug af hårspray er der desuden risiko for eksponering ved indånding.

Ifølge Forbrugerinformationen anvender vi 585.000 liter hårlak, 612.000 liter skum og 350.000 liter gelé og voks i Danmark om året, svarende til i alt 1,5 millioner liter om året eller 300 ml per person per år (Tænk + Test, 2001). Hertil kommer mængden af andre typer af hårstylingsprodukter, som formentlig ikke er omfattet af denne mængdeopgørelse.

Der har været en del debat vedrørende hårstylingsprodukter. Grøn Information indsamlede i 1998 informationer om mere end 500 forskellige kemiske stoffer anvendt i kosmetikprodukter. Formålet var her primært at beskrive stoffernes miljøforhold (Grøn Information, 2001).

Det tyske forbrugerblad Öko test har i 1999 undersøgt 46 forskellige hårspray og i 2001 26 forskellige skumprodukter, hvoraf en stor del har vist sig at indeholde stoffer, der mistænkes for at have hormonforstyrrende effekter samt skadelige effekter hos vandlevende organismer - på trods af at alle stoffer i produkterne er lovlige (Öko test, 1999; 2001).

Forbrugerinformationen har i foråret 2001 kortlagt indholdet af kemiske stoffer i 76 forskellige hårstylingsprodukter. Af de i alt 268 stoffer har Forbrugerinformationen udvalgt 16 stoffer til en miljø- og sundhedsvurdering - enten pga. en forventning om at stofferne er miljø- eller sundhedsmæssigt problematiske, eller fordi stofferne fandtes i et stort antal af produkterne. CETOX¹ foretog denne miljø- og sundhedsvurdering af de udvalgte stoffer, og de konkluderede, at 11 af de 16 undersøgte stoffer har en skadelig effekt på miljø og sundhed.

Brancheforeningen SPT² har reageret på undersøgelsen i Tænk + Test ved at udsende en pressemeddelelse den 4. april 2001, hvori de gør opmærksom på, at der ikke er nogen grund til frygt for hårstylingsprodukter. SPT udtaler, at "undersøgelsens konklusioner imidlertid ikke synes at have baggrund i den viden, som Miljøstyrelsen og andre forbrugerorganisationer lægger til grund for deres vurderinger". Dette hænger sammen med, at "kun 2 af de 11 stoffer, der i undersøgelsen anses for at have skadelige effekter på miljø og sundhed, indgår på Miljøstyrelsens såkaldte Effektlister³". Ud over dette mener SPT ikke, at undersøgelsen i Tænk + Test er specielt repræsentativ - "de 11 stoffer, der anses for at have en skadelig effekt, skal ses i forhold til de i alt 268 forskellige stoffer, der indgik i de 76 produkter, som undersøgelsen omfattede".

¹ CETOX, Center for Integreret Miljø og Toksikologi.

² Brancheforeningen SPT, Sæbe og Kosmetikindustrien i Danmark (Sæbe, Parfume og Teknisk/kemiske artikler).

³ Effektlister 2000. Orientering fra Miljøstyrelsen nr. 6, 2000.

Det er således relevant at foretage en mere grundig undersøgelse af de kemiske stoffer i hårstylingsprodukter og deres miljø- og sundhedsmæssige egenskaber for at vurdere, om det blot er et fåtal af de kemiske stoffer i hårstylingsprodukter, der er problematiske eller ej.

3 Hårstylingsprodukter

3.1 Definition af hårstylingsprodukter

Hårstylingsprodukter hører under gruppen af kosmetiske produkter.

Kosmetikprodukter defineres som *produkter, der er bestemt til at komme i kontakt med forskellige dele af det menneskelige legemes overflade, dvs. hud, hovedhår og anden hårvækst, negle, læber og ydre kønsorganer, eller med tænderne og mundens slimhinder, udelukkende eller hovedsageligt for at rense, parfumere, beskytte eller ændre udseendet* (BEK 594, 2000).

Hårstylingsprodukternes primære funktion er at forme (style) og at sætte (fikser) håret. Hårstylingsprodukter deles derfor (især i frisørverdenen) ofte op i stylingsprodukter og finishprodukter (fiksering). Der findes mange forskellige typer af hårstylingsprodukter, bl.a. hårspray/hårlak, gele, gelespray, creme, skum/mousse, voks, hårudglatningsmiddel, som alle har det til fælles, at *de tilføres håret med det formål at forme og sætte det, og at de ikke skal skylles ud.*

Der findes flere synonymer for de forskellige typer af hårstylingsprodukter, eksempelvis er hårspray og hårlak synonymer for det samme, og skum og mousse er ligeledes synonymer. I dette projekt er der valgt at bruge følgende begreber for de forskellige typer af hårstylingsprodukter:

- Hårspray (hårlak)
- Voks
- Gele
- Gelespray
- Skum (mousse)
- Creme
- Hårudglatningsmiddel

I kortlægningen er de undersøgte hårstylingsprodukter således også opdelt i disse forskellige typer hårstylingsprodukter.

3.2 Kemiske stoffer i hårstylingsprodukter

Hårstylingsprodukter kan indeholde mange forskellige kemiske stoffer. Typen og antallet af kemiske stoffer afhænger af typen af hårstylingsproduktet.

Brancheforeningen SPT har udgivet en branchevejledning om kosmetikprodukter for frisører (SPT, 1999). I denne angives en typisk sammensætning af gele, skum/mousse og hårspray/hårlak, se Tabel 3. **Fejl! Ukendt argument for parameter..**

Hårstylingmidler indeholder typisk en polymer, der har til formål at danne en hinde rundt om hårstrået for at give en stabilisering af håret. Polymeren er opløst i vand og/eller alkohol. Herudover indeholder hårstylingprodukter en række hjælpestoffer, for eksempel blødgørere, kompleksdannere, fortykkelsesmidler, pH-regulatorer, parfume, farvestoffer, emulgatorer, antistatiske midler, konserveringsmidler samt eventuelle vitaminer og UV-filtre. Hvis hårstylingproduktet leveres i aerosoldåse, vil det også indeholde et drivmiddel.

Mange hårstylingsprodukter har udover den stylende effekt også andre funktioner, eksempelvis plejende effekt (balsam m.m.) eller beskyttende effekt (solfaktor). Disse hårstylingsprodukter indeholder således en række yderligere kemiske stoffer.

Tabel 3. **Fejl! Ukendt argument for parameter.:** Typisk sammensætning af gele, skum og hårspray (efter SPT, 1999).

Sammensætning	Gele		Skum		Hårspray	
	Eksempelvis	Max. konc.	Eksempelvis	Max. konc.	Eksempelvis	Max. konc.
Alkohol	Ethanol	50%	Ethanol	30%	Ethanol Isopropylalkohol	95%
Drivmiddel			Butan Propan	30%	Butan Propan	60%
Siliconederivater	Dimethicon	25%	Amodimethicon	10%		
Flygtige opløsningsmidler					Acetone	25%
Mineralske olier			Petrolatum	10%		
Befugtere	Glycerin Propylene glycol	20%				
Polymer, resin	PVP Polyquaternium-11	10%	PVA Polyquaternium-4	10%	PVA PVP	8,5%
Neutraliserende stoffer	Aminomethylpropanol	10%	Aminomethylpropanol	10%	Aminomethylpropanol	
Tensider	Ethoxylerede fedtsyrer	5%	Cetrimoniumchlorid Triacetin	5%		
	Isopropylalkohol	5%	Polyglycolethere	5%		
Blødgørende stoffer			Triacetin, Lanolinderivater	2%	Lanolinderivater, Siliconeolie	2%
Fortykkelsesmiddel	Carbomer	2%				
Andre stoffer	UV-filter Vitaminer	2%	UV-filter Vitaminer	1%	Alkoxylerede glucose- derivater UV-filtre Vitaminer	2%
Konserveringsmiddel	Parabener	1,5%	Parabener	2%		1%
Parfume		1%		0,2%		1%
Farvestoffer		0,001 %		0,1%		
Evt. tilsættes vand til de 100%		Til de 100%		Til de 100%		Til de 100%

4 Lovgivning på området

Hårstylingsprodukter er reguleret af Kosmetikbekendtgørelsen (BEK 594, 2000), der gennemfører de europæiske bestemmelser på kosmetikområdet. den danske lovtæst er hårstylingsprodukter listet under betegnelsen "frisermidler" (lotion, lak, brillantine) samt under betegnelsen "hårsætningsmidler"⁴. Kosmetikbekendtgørelsen regulerer produktsammensætning og anvendelse. Endvidere indeholder bekendtgørelsen en række bestemmelser om mærkning og anmeldelsespligt til Miljøstyrelsen.

Ifølge Kosmetikbekendtgørelsens §9 må kosmetiske produkter, der markedsføres i EU, ikke være til skade for menneskets sundhed, når de anvendes under normale betingelser. Kosmetikbekendtgørelsen sætter en række anvendelsesbegrænsninger for kemiske stoffer, der indgår i kosmetikprodukter. Herudover må ingredienser, der er blevet afprøvet på dyr, efter 30. juni 2002 ikke indgå i kosmetiske produkter (§15).

Den, der markedsfører kosmetikproduktet, har ansvaret for, at reglerne, som de fremgår af bekendtgørelsen, overholdes.

4.1 Mærkning af hårstylingsprodukter

Kosmetiske produkter (herunder hårstylingsprodukter) skal være mærket med følgende oplysninger på selve produktet (BEK 594, 2000):

- Firmanavn og adresse for den fabrikant, der inden for EU er ansvarlig for markedsføringen (§17).
- Indhold i vægt eller volumen (hvis mere end 5 g eller mere end 5 ml (§18)).
- Holdbarhedsdato (hvis holdbarheden er mindre end 30 måneder (§19)).
- Sikkerhedsforskrifter for anvendelse (§20).
- Fabrikationsseriens nummer eller referenceangivelse, således at dato og sted for produktionen kan identificeres (§21).
- Midlets funktion (medmindre det fremgår af dets præsentation (§22)).
- Indholdsdeklaration, dvs. en liste over produktets ingredienser opstillet i rækkefølge efter aftagende vægt på det tidspunkt ingredienserne tilsættes det kosmetiske middel (§23).

4.2 Indholdsdeklaration

Følgende særlige forhold gør sig gældende for indholdsdeklarationen af kosmetiske produkter (BEK 594 §23, 2000):

- Urenheder anses ikke for at være ingredienser.
- Parfumerede eller aromatiske forbindelser skal blot angives ved henholdsvis betegnelsen "parfume" (eller "parfum") eller "aroma".
- Ingredienser i en koncentration på under 1% kan nævnes i vilkårlig rækkefølge efter de ingredienser, hvis koncentration er højere end 1%.
- Farvestoffer kan nævnes med farveindex-nummer i vilkårlig rækkefølge efter de øvrige ingredienser.

⁴ Bilag 1 i Kosmetikbekendtgørelsen, punkt 10b og 10f.

- Ingredienserne angives ved deres almindelige betegnelse i henhold til den fælles nomenklatur (INCI-navn) for kosmetiske ingredienser.

INCI er en forkortelse for ”International Nomenclature Cosmetic Ingredients” og er en fælles nomenklatur til brug for indholdsdeklarationer for kosmetiske produkter i EU. Et INCI-navn kan dække over flere forskellige kemiske enheder. INCI-listen er indikativ, dvs. det er ikke en liste over tilladte ingredienser i kosmetik, men derimod en liste, der indikerer hvilke ingredienser, der bliver anvendt (Pharmacos, 2001). Findes der ikke et INCI-navn for en ingrediens, skal der anvendes den kemiske betegnelse for stoffet, og der skal søges om at få et INCI-navn for stoffet (BEK 594, 2000).⁵

4.3 Anmeldelse af hårstylingsprodukter

Ifølge Kosmetikbekendtgørelsen skal den, der inden for EU er ansvarlig for markedsføringen af det kosmetiske produkt i Danmark, anmelde produktet til Miljøstyrelsen (§30). Anmeldelsen til Miljøstyrelsen skal indeholde oplysninger om følgende (BEK 594, 2000):

- Firmanavn og adresse.
- Produktets oprindelsesland for de produkter, der ikke er fremstillet inden for EU.
- Produktets handelsnavn.
- Produkttype.

Ændringer i markedsføringen skal ligeledes meddeles Miljøstyrelsen.

4.4 Særlige regler for produkter i aerosolform

Hårstylingsprodukter, der leveres i aerosolform (eks. hårspray), er herudover reguleret i Arbejdstilsynets bekendtgørelse om aerosoler (BEK 844, 1994) samt Miljøministeriets bekendtgørelse om anvendelse af driv- og opløsningsmidler i aerosolbeholdere fra 1984 (BEK 571, 1984).

Arbejdstilsynets bekendtgørelse om aerosoler orienterer om den korrekte mærkning af beholdere, der indeholder aerosoler. Miljøministeriets bekendtgørelse indeholder en liste over hvilke driv- og opløsningsmidler, der må anvendes i aerosolbeholdere (bekendtgørelsens bilag 1).

4.5 Begrænsninger i brug af kemiske stoffer i hårstylingsprodukter

Som beskrevet sætter Kosmetikbekendtgørelsen (BEK 594, 2000) en række anvendelsesbegrænsninger for kosmetikprodukter. Blandt andet for hvilke stoffer, der ikke må anvendes i kosmetiske produkter, hvilke stoffer der kun må anvendes under særlige betingelser (eksempelvis maksimal koncentration), samt hvilke stoffer der kun må anvendes (positivlister) inden for en bestemt gruppe (f.eks. farvestoffer, konserveringsmidler).

⁵ Der er sidenhed udkommet en nyere version af INCI-listen (International Cosmetic Ingredient Dictionary and Handbook, Ninth Edition 2002). Derfor kan et stof godt være opført på den nyeste INCI-liste selvom det ikke fremgår af rapporten.

Stoffer som ikke må indgå i hårstylingsprodukter

Ifølge Kosmetikbekendtgørelsens §10 må ”stoffer, som er optaget på (bekendtgørelsens) bilag 2, ikke indgå som ingredienser i kosmetiske produkter”.

Tilladte farvestoffer i hårstylingsprodukter

Ifølge Kosmetikbekendtgørelsens §12 må ”kosmetiske produkter (med undtagelse af de farvestoffer der udelukkende er bestemt til hårfarvning) kun indeholde de farvestoffer samt lakker, salte og pigmenter heraf, der er optaget i (bekendtgørelsens) bilag 3 og 4 og med de deri fastsatte begrænsninger og betingelser”.

Tilladte konserveringsmidler i hårstylingsprodukter

Ifølge Kosmetikbekendtgørelsens § 13 må ”kosmetiske produkter ikke indeholde andre konserveringsmidler end dem, der er optaget i (bekendtgørelsens) bilag 5”.

Tilladte UV-filtre i hårstylingsprodukter

Ifølge Kosmetikbekendtgørelsens § 14 må ”kosmetiske produkter ikke indeholde andre UV-filtre end dem, der er optaget i (bekendtgørelsens) bilag 6”. Dog er andre UV-filtre, der udelukkende anvendes i kosmetiske produkter for at beskytte produkterne selv mod nedbrydning af UV-stråling, ikke medtaget i (bekendtgørelsens) bilag 6.

5 Kortlægning

Et af formålene med dette projekt var at kortlægge hvilke kemiske stoffer, der findes i hårstyling produkter på det danske marked. En sådan kortlægning sker først og fremmest ved at kortlægge hvilke hårstyling produkter, der sælges i Danmark. Udgangspunktet for projektet var at indsamle i alt 300 hårstyling produkter, da der fra projektets start var en forventning om, at 300 produkter ville dække en væsentlig del af de eksisterende hårstyling produkter på det danske marked. (Mængdebetrægtninger er ikke medtaget i vurderingen af markedsdækningen).

I projektet er der for Miljøstyrelsen udviklet en database over de kortlagte hårstyling produkter. Nedenfor beskrives, hvordan oplysninger om hårstyling produkterne er fremskaffet, og hvordan databasen over hårstyling produkter er opbygget, og hvilke oplysninger den indeholder.

5.1 Kortlægning af hårstyling produkter

Kortlægningen af hårstyling produkter i Danmark er foretaget med udgangspunkt i følgende kilder:

- Anmeldelsesbreve til Miljøstyrelsen (dateret tilbage til 30.6.2000) fra i alt 10 forskellige importører/producenter af hårstyling produkter.
- Forbrugerinformationens undersøgelse af hårstyling produkter i foråret 2001 (Tænk + Test, 2001), hvor i alt 76 forskellige hårstyling produkter blev undersøgt.
- Brancheforeningen SPT's liste over medlemmer i deres frisørsektion.
- Søgninger på Internettet, De Gule Sider m.m.
- Systematisk indkøb af hårstyling produkter i detailhandel og hos frisører.

Den begrænsede anmeldelse af hårstyling produkter til Miljøstyrelsen (i alt er anmeldelser fra 10 forskellige importører modtaget i løbet af det sidste års tid), har betydet, at det ikke har været muligt at foretage en komplet kortlægning af de hårstyling produkter, der markedsføres på det danske marked, da der således ikke eksisterer en komplet liste over producenter/importører af hårstyling produkter i Danmark. Der er således ikke foretaget en komplet kortlægning af alle hårstyling produkter, der markedsføres i Danmark, men der er udviklet en database med ca. 300 forskellige hårstyling produkter. I bilag A er angivet en liste over de importører/producenter af hårstyling produkter, der er identificeret i løbet af projektet.

5.1.1 Indkøb af hårstyling produkter

Oplysninger om indholdet af kemiske stoffer i hårstyling produkterne er tilvejebragt på to forskellige måder. Enten ved at købe produkterne eller ved at rekvirere produkter eller indholdsdeklarationer direkte fra importørerne/producenterne. Tabel 5. **Fejl! Ukendt argument for parameter.** viser, at produkterne først og fremmest er fremskaffet ved indkøb. Dette projekt er udarbejdet over en forholdsvis kort tidshorizont (3 måneder). Selve kortlægningen af hårstyling produkterne er udført over en periode på ca. 1½ måned, hvorfor

produkterne i overvejende grad er blevet købt, da dette var langt den hurtigste måde at fremskaffe hårstylingsprodukterne på.

Flere importører af hårstylingsprodukter - især importører af frisørprodukter - er blevet kontaktet telefonisk med henblik på enten at få tilsendt produkter eller indholdsdeklarationer. Dette har imidlertid været en begrænset succes, da kun oplysninger om ca. 13% af produkterne er fremskaffet på denne måde. Dette skyldes blandt andet den korte tidshorisont for kortlægningen. Det skal dog dertil siges, at flere af de kontaktede firmaer er importører og derfor skal fremskaffe indholdsdeklarationer fra den udenlandske producent.

Tabel 5. **Fejl! Ukendt argument for parameter.:** Oversigt over antallet af produkter i kortlægningen

	Antal produkter
Produkter, der er købt	277
Produkter, der er tilsendt fra importør	6
Produkter, hvor indholdsdeklaration er tilsendt fra importør	36
Private produkter	9
Antal produkter i alt	328

For at kortlægningen af hårstylingsprodukterne skulle være så dækkende som muligt, er der indkøbt produkter fra både detailhandlen og fra frisører. Enkelte produkter, der kun kan bestilles per postordre, er også indkøbt. Tabel 5. **Fejl! Ukendt argument for parameter.** viser typen af de kortlagte hårstylingsprodukter fordelt på detailprodukt, frisørprodukt og postordreprodukt. I alt dækker kortlægningen 328 forskellige hårstylingsprodukter.

Tabel 5. **Fejl! Ukendt argument for parameter.:** Oversigt over typen af hårstylingsprodukterne (Frisør, Detail, Postordre)

	Antal produkter
Frisørprodukter	88
Produkter købt i detailhandlen	237
Produkter købt per postordre	3
Antal produkter i alt	328

I løbet af projektet har det vist sig, at der findes et utal af hårstylingsprodukter på det danske marked. Bilag A er en oversigt over de importører/producenter af hårstylingsprodukter, der er identificeret i løbet af projektet. Tabellen viser samtidigt hvilke produktnavne, de forskellige importører/producenter markedsfører, samt hvilke af disse produkter der er indkøbt eller fremskaffet i forbindelse med projektet. For nogle hårstylingsserier er alle produkterne købt, men for en del serier er det kun enkelte produkter, der er indkøbt.

Som det fremgår af bilag A, er der ikke indkøbt produkter fra alle de identificerede importører/producenter af hårstylingsprodukter. Det er heller ikke for alle de identificerede importører/producenter, at der er kendskab til hvilke serier af hårstylingsprodukter, de markedsfører (dvs. navn på produktserien/serierne er ikke angivet). Da målet med de 300 produkter var nået, blev indkøb og kontakt til importører af hårstylingsprodukter standset. Listen over importører af hårstylingsprodukter (bilag A) er derfor ikke komplet og dækker sandsynligvis ikke alle importører/producenter af hårstylingsprodukter.

Der findes således langt flere end de 328 hårstylingsprodukter på det danske marked. I virkeligheden er det nok snarere omkring 500 forskellige produkter, der markedsføres i alt på det danske marked. På baggrund af indkøbene vurderes det dog, at mellem 90 og 95% af de hårstylingsprodukter, der kan købes i detailhandlen er omfattet af kortlægningen. Dette begrundes med, at produkter er

indkøbt fra de fleste detailhandelskæder: Føtex, Bilka, Irma, Favør, Netto, Kvickly, Fakta, Matas, Magasin samt diverse specialbutikker som The Body Shop, Victoria's og Hennes & Mauritz. Desuden er der indkøbt stort set hele serier af de hårstylingsprodukter, der sælges i disse detailbutikker.

De resterende hårstylingsprodukter, som ikke er omfattet af kortlægningen i dette projekt, forventes således primært at være frisørprodukter.

I bilag A er der noteret hvilke produkter, der er indkøbt, og dermed indgår i den udarbejdede database.

5.2 Database over hårstylingsprodukter

For de i alt 328 kortlagte hårstylingsprodukter er der for Miljøstyrelsen udviklet en database i Microsoft Access 2000. Formålet med databasen over hårstylingsprodukterne er at skabe et overblik over hårstylingsprodukter og deres indhold af kemiske stoffer på en forholdsvis enkel måde. Desuden er det med databasen muligt at sortere i informationerne og udtrække de informationer, man måtte ønske (så længe informationerne er lagt ind i databasen).

Databasen er bygget op omkring to hovedoversigter:

- *En produktoversigt*, hvor der for hvert hårstylingsprodukt er registreret:
 - Indhold af kemiske stoffer
 - Diverse oplysninger om produktet (type, købested, m.m.)
- *En stofoversigt* over udvalgte kemiske stoffer og deres miljø- og sundhedsegenskaber. Denne oversigt er opdelt i tre, og for hvert kemisk stof findes der:
 - En oversigt over fysisk-kemiske parametre
 - En oversigt over sundhedsmæssige egenskaber
 - En oversigt over miljømæssige egenskaber

Oversigten over udvalgte kemiske stoffer og deres miljø- og sundhedsegenskaber beskrives nærmere i kapitlet "Miljø- og sundhedsscreening". I det følgende beskrives oversigten over hårstylingsprodukterne.

Følgende oplysninger er registreret i databasen for alle de indkøbte hårstylingsprodukter:

- Produktnavn (navnet på hårstylingsproduktet).
- Produkttype (dvs. voks, hårspray, gele, gelespray, skum, creme, hårudglatningsmiddel eller andet).
- De kemiske stoffer indeholdt i produkterne inkl. rangordning (dvs. rækkefølgen af stofferne på ingredienslisten).
- Antal kemiske stoffer indeholdt i produktet i alt.
- Angivelse af hvordan produktet er fremskaffet (produktet er købt eller tilsendt, indholdsdeklaration er tilsendt, eller produktet er et privat produkt).
- Angivelse af hvor produktet er købt eller skaffet fra.
- Angivelse af om produktet er et detail-, frisør- eller postordreprodukt.
- Navnet på producenten eller importøren.
- Hvornår produktet er købt eller modtaget.
- Stregkoden på produktet (hvis denne findes).
- Batchnummer
- PR-nummer (det nummer produkterne får, når de bliver registreret i Produktregistret).
- Eventuelle specifikationer af parfumeindhold.

- Eventuelle kommentarer.

I det følgende gennemgås nærmere hvilke oplysninger, der er registreret i databasen.

5.2.1 Produktnavn

Først og fremmest er navnet på hårstylingproduktet registreret i databasen for at kunne identificere hvilke produkter, der er blevet købt.

Som beskrevet tidligere findes der formodentlig omkring i alt 500 forskellige hårstylingprodukter på det danske marked. Databasen indeholder således sandsynligvis over halvdelen af hårstylingprodukterne, der findes på det danske marked. Dog er detailhandelsprodukterne betydeligt bedre repræsenteret end frisørprodukterne. Databasen vil dog, på trods af disse forbehold, formodentlig repræsentere det danske marked for hårstylingprodukter rimeligt godt.

5.2.2 Produkttype

For hvert hårstylingprodukt er der i databasen angivet hvilken type hårstylingprodukt, der er tale om. Tabel 5. **Fejl! Ukendt argument for parameter.** er en oversigt over hvilke kategorier, der er anvendt i databasen til at beskrive typen af hårstylingproduktet. Tabellen viser ligeledes hvor mange af de enkelte typer af produkter, der er registreret i databasen, også fordelt på detail-, frisør- og postordreprodukter. Kategorien ”andet” dækker over lidt mere udefinerbare produkttyper såsom ”gloss spray” eller ”detangling spray⁶”, der også har andre formål end at sætte håret. Hvis produktet ikke entydigt har kunnet kategoriseres under de andre produkttyper, er kategori ”Andet” brugt.

Tabel 5. **Fejl! Ukendt argument for parameter.**: Oversigt over typen af hårstylingprodukterne

	Detailprodukter	Frisørprodukter	Postordreprodukter	Antal produkter i alt
Voks	33	15		48 (15%)
Hårspray	70	27	1	98 (30%)
Gele	56	18	1	75 (23%)
Gelespray	12	4		16 (5%)
Skum	48	10	1	59 (18%)
Creme	10	8		18 (5%)
Hårudglatningsmiddel	6	3		9 (3%)
Andet	2	3		5 (1%)
Antal produkter i alt	237	88	3	328 (100%)

Som det ses af Tabel 5. **Fejl! Ukendt argument for parameter.** indeholder databasen en overvægt af hårspray, gele og skumprodukter, men dette illustrerer ganske godt virkeligheden, da der findes flest af disse produkter i både detailhandlen og frisørverdenen. Da der er købt tilfældigt ind, vil databasen, også på dette punkt, repræsentere det danske marked for hårstylingprodukter rimeligt godt.

5.2.3 Kemiske stoffer indeholdt i produkterne

De kemiske stoffer, der indgår i hårstylingprodukterne, skal ifølge Kosmetikbekendtgørelsen (BEK 594, 2000) være angivet på emballagen ved deres INCI-betegnelse, der er en fælles nomenklatur til brug for indholdsdeklarationer

⁶ Hårudglatningmiddel

for kosmetikprodukter i EU. Et INCI-navn kan dække over flere forskellige kemiske enheder (Pharmacos, 2001) ligesom et kemisk navn kan være repræsenteret ved flere forskellige INCI-navne.

Desuden skal ingredienserne angives i rækkefølge efter aftagende vægt. Dog må ingredienser i en koncentration på under 1% nævnes i vilkårlig rækkefølge efter de ingredienser, hvis koncentration er højere end 1%. Farvestoffer kan nævnes i vilkårlig rækkefølge efter de øvrige ingredienser, og parfumerede eller aromaforbindelser skal blot benævnes henholdsvis ”parfume” (eller ”parfum”) eller ”aroma”. På trods af disse undtagelser er den rækkefølge, hvori ingredienserne bliver nævnt på emballagen, en indikation af, hvor store mængder de forskellige ingredienser forekommer i produktet.

For hvert hårstylingprodukt er der derfor indlagt oplysninger i databasen om hvilke ingredienser, der indgår i produkterne, men også i hvilken rækkefølge (rangordning) ingredienserne er listet på produktet. Rangordningen er således en indikation af indholdsstoffernes relative koncentration i produkterne. Et lille tal (høj rangordning) er et udtryk for, at stoffet indgår som hovedingrediens i produktet, hvorimod et højt tal (lav rangordning) indikerer, at stoffet indgår som tilsætningsstof, f.eks. konserveringsmidler.

Det skal bemærkes, at det ikke er undersøgt om hårstylingprodukterne rent faktisk også indeholder de kemiske stoffer, der er anført på produkterne. Det kan tænkes, at der forekommer fejl på etiketterne i forhold til det faktiske indhold, som vi derfor ikke har kunnet tage forbehold for i dette projekt. Indholdsdeklaration og det faktiske indhold må dog som udgangspunkt kunne forventes at være identisk.

Den seneste engelske udgave af INCI-listen (28.6.2001) indeholdende ca. 6200 ingredienser anvendt i kosmetikprodukter er indlagt som en tabel i databasen. Dette letter for det første indtastningen af ingredienserne i databasen, da det således er muligt at vælge ingredienserne fra en på forhånd defineret liste. For det andet betyder det, at risikoen for indtastningsfejl reduceres, da det kun er muligt at indtaste ingredienser, der indgår på denne INCI-liste. Dette betyder endeligt også, at det er muligt at holde øje med, om alle ingredienser indgår på INCI-listen.

Under indtastningen viste det sig, at der var flere produkter, der indeholdt ingredienser, der ikke indgår på den seneste INCI-liste (fra 28.6.2001). Disse ingredienser er i disse tilfælde tilføjet databasens INCI-liste med en markering af, at de er tilføjet. Der er i alt 83 stoffer, der er tilføjet til databasens INCI-liste. At et stof ikke indgår på INCI-listen fra 28.6.2001, kan der være flere årsager til:

- Stoffet findes ikke på den seneste opdatering af INCI-listen, dvs. ansøgning om brug af dette INCI-navn er under udarbejdelse eller behandling.
- Det er ikke INCI-navnet, der står på produkterne som påkrævet, og det har ikke været muligt at finde frem til det ”rigtige” INCI-navn.
- Der er stavfejl i indholdsdeklarationen på produktet, hvor det ikke har været muligt at konkludere hvilket ”korrekt” INCI-navn, der burde have stået på emballagen. (Alle antagelser om stavfejl er noteret).

Bilag C er en liste over samtlige kemiske stoffer, der er fundet i de kortlagte produkter. Der forekommer i alt 585 forskellige stoffer i de 328 hårstylingprodukter registreret i databasen. Bilag C viser desuden, hvor hyppigt de forskellige kemiske stoffer forekommer, samt med hvilken gennemsnitlig rangordning de forekommer (dvs. i hvilken gennemsnitlig relativ koncentration stofferne indgår i). Tabel 5. **Fejl! Ukendt argument for parameter.** nedenfor viser de 50 hyppigst forekommende kemiske stoffer i de kortlagte hårstylingprodukter.

Tabellen viser samtidigt hvor mange af de 328 produkter, stofferne indgår i, samt med hvilken gennemsnitlig rangordning de indgår.

Bilag D viser de kemiske stoffer i hårstylingsprodukterne fordelt på typen af produkt. Dvs. hvilke stoffer, der findes i hårspray, gele, skum osv. Bilag D viser samtidig med hvilken gennemsnitlig rangordning, stoffer indgår for den nævnte produkttype, dvs. hvilken gennemsnitlig relativ koncentration, stofferne indgår i.

Tabel 5. Fejl! Ukendt argument for parameter.: De 50 hyppigst forekommende ingredienser i hårstylingsprodukterne.

INCI Navn	CAS Nr.	Kemisk navn (som angivet på INCI-listen)	I antal produkter	Gennemsnitlig rangordning ¹
PARFUME			286	10,9
AQUA	7732-18-5	Water	257	1,8
ALCOHOL DENAT.	64-17-5	Ethanol	161	1,7
PANTHENOL	81-13-0	Dexpanthenol	122	8,5
AMINOMETHYL PROPANOL	124-68-5	2-Amino-2-methylpropanol	107	7,1
BUTANE	106-97-8	Butane	96	3,4
PROPANE	74-98-6	Propane	93	4,6
PVP / VA COPOLYMER	25086-89-9	Acetic acid, ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	91	3,8
DIMETHICONE COPOLYOL	64365-23-7	Siloxanes and silicones, di-me, hydroxy-terminated, ethoxylated propoxylated	82	7,5
PROPYLENE GLYCOL	57-55-6	Propane-1, 2-diol	81	7,2
METHYLPARABEN	99-76-3	Methyl-4-hydroxybenzoate	75	13,7
CARBOMER	9007-20-9 9003-01-4	Carbomer	70	5,4
PVP	9003-39-8	2-Pyrrolidinone, 1-ethenyl-, homopolymer	64	4,4
ISOBUTANE	75-28-5	Isobutane	62	4,1
TRIETHANOLAMINE	102-71-6	2, 2', 2''-Nitrilotriethanol	60	6,7
PHENOXYETHANOL	122-99-6	2-Phenoxyethanol	58	13,1
PEG-40 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	56	6,7
PROPYLPARABEN	94-13-3	Propyl-4-hydroxybenzoate	52	15,2
GLYCERIN	56-81-5	Glycerol	48	6,4
BENZOPHENONE-4	4065-45-6	Sulisobenzone	46	12,1
POLYQUATERNIUM-11	53633-54-8	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate	44	6,0
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	70801-07-9		30	4,0
CETRIMONIUM CHLORIDE	112-02-7	Cetrimonium chloride	28	12,4
BUTYLPARABEN	94-26-8	Butyl-4-hydroxybenzoate	28	15,5
ETHYLPARABEN	120-47-8	Ethyl-4-hydroxybenzoate	27	14,6
DMDM HYDANTOIN	6440-58-0	1, 3-bis(Hydroxymethyl)-5, 5-dimethylimidazolidine-2, 4-dione	27	12,0
DIMETHYL ETHER	115-10-6	Dimethyl ether	27	1,9
NIACINAMIDE	98-92-0	Nicotinamide	27	11,3
PETROLATUM	2231335 (ikke et CAS nr. - fandt 8009-03-8, 8020-83-5)	Petrolatum. A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than C25	26	1,4

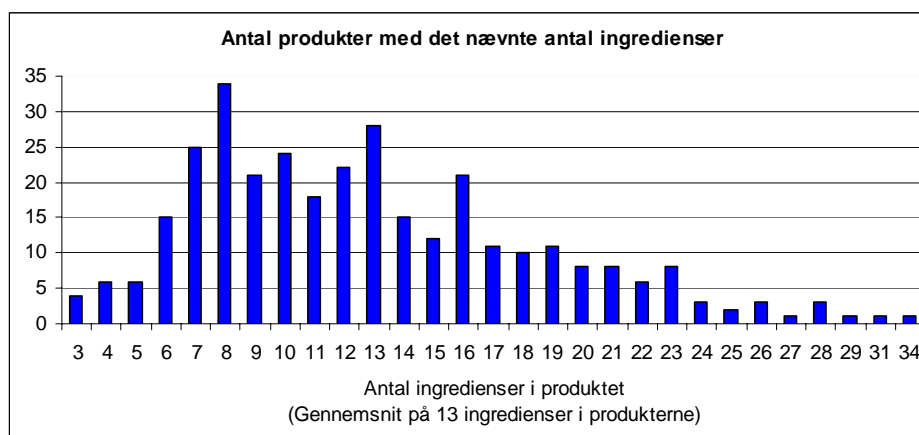
INCI Navn	CAS Nr.	Kemisk navn (som angivet på INCI-listen)	I antal produkter	Gennemsnitlig rangordning ¹
DISODIUM EDTA	139-33-3	Disodium dihydrogen ethylenediaminetetraacetate	26	12,0
POLYQUATERNIUM-4			25	8,1
CYCLOMETHICONE	69430-24-6	Octamethylcyclotetrasiloxane / decamethylcyclopentasiloxane	24	6,3
POLYSORBATE 20	9005-64-5	Sorbitan, monododecanoate, poly(oxy-1, 2-ethanediyl) derivs.	22	10,8
TETRASODIUM EDTA	64-02-8	Tetrasodium ethylenediaminetetraacetate	22	12,9
PARAFFINUM LIQUIDUM	8012-95-1	Paraffin oils. Liquid hydrocarbons from petroleum	21	3,0
DIMETHICONE	9006-65-9 63148-62-9	Dimethicone	21	5,4
ISOPROPYL ALCOHOL	67-63-0	Propan-2-ol	20	7,9
POLYQUATERNIUM-16	95144-24-4		20	7,7
CI 42090	2650-18-2, 3844-45-9, 68921-42-6	Diammonio(ethyl)[4-[[4-[ethyl(3-sulphonatobenzyl)amino]phenyl](2-sulphonatophenyl)methylene]cyclo-hexa-2, 5-dien-1-ylidene](3-sulphonatobenzyl)ammonium	19	15,6
PHENYL TRIMETHICONE	2116-84-9	1, 1, 5, 5-Hexamethyl-3-phenyl-3-[[trimethylsilyl]oxy]trisiloxane	18	5,3
OCTYL METHOXYCINNAMATE	5466-77-3	2-Ethylhexyl 4-methoxycinnamate	17	7,8
ALCOHOL	64-17-5	Ethanol	17	3,5
ACRYLATES COPOLYMER	25133-97-5	2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate	17	6,6
TOCOPHEROL	59-02-9, 10191-41-0	α -Tocopherol; 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-ol	16	11,4
AMODIMETHICONE			16	9,5
MICA	12001-26-2	Mica-group minerals (CI 77019)	16	10,7
CYCLOPENTASILOXANE			15	5,9
BENZYL ALCOHOL	100-51-6	Benzyl alcohol	14	10,1
CITRIC ACID	77-92-9	Citric acid	14	12,9
SORBITOL	50-70-4	D-glucitol	14	9,0

¹ Er et udtryk for koncentrationen idet stoffer med rang 1 forekommer i det enkelte produkt i højest koncentration (i størst mængde).

5.2.4 Angivelse af antallet af ingredienser

På baggrund af indholdsdeklarationen på hårstylingprodukterne er der angivet hvor mange ingredienser, det enkelte hårstylingprodukt indeholder. Antallet af ingredienser varierer fra 3 til 34 forskellige kemiske stoffer. I Figur 5. **Fejl! Ukendt argument for parameter.** ses fordelingen af antallet af ingredienser i de undersøgte hårstylingprodukter. De undersøgte hårstylingprodukter indeholder i gennemsnit 13 ingredienser (12,8).

Figur 5. **Fejl! Ukendt argument for parameter.**: Fordelingen af antallet af ingredienser i de



undersøgte produkter.

5.2.5 Angivelse af hvordan produktet er fremskaffet

Der er for hvert enkelt produkt i databasen angivet, hvordan produktet er fremskaffet, dvs. om produktet er købt, produktet er tilsendt fra importøren, indholdsdeklarationen er tilsendt fra importøren, eller om det er et privat produkt. Som beskrevet tidligere er langt den største del af produkterne købt (84%) - se Tabel 5. **Fejl! Ukendt argument for parameter.**

5.2.6 Angivelse af hvor produktet er købt eller skaffet fra

For hvert produkt er der i databasen angivet, hvor produktet er købt eller skaffet fra. Det vil sige, hvis produktet er købt, er navn og adresse på butikken eller frisøren angivet, og hvis produktet eller indholdsdeklarationen er tilsendt, er importørens navn angivet. Som beskrevet tidligere er der indkøbt produkter fra de fleste detailhandlere. Desuden er der indkøbt produkter fra flere forskellige frisører.

5.2.7 Angivelse af om produktet er detail-, frisør- eller postordreprodukt

For hvert produkt er det desuden angivet, om produktet er et detailprodukt, frisørprodukt eller et produkt købt per postordre. Som beskrevet tidligere er størstedelen af produkterne (72%) produkter fra detailhandlen. I Tabel 5. **Fejl! Ukendt argument for parameter.** er der angivet, hvilken type produkter databasen indeholder.

5.2.8 Navnet på producenten eller importøren

For hvert produkt er der angivet importøren og/eller producentens navn. I de fleste tilfælde vil der stå både importørens navn og adresse i Danmark samt den udenlandske producents navn.

5.2.9 Hvornår produktet er købt eller modtaget

Det er angivet, hvornår produkterne er købt for at indikere, at det er produkter, som er i handlen i dag, der indgår i databasen. De indkøbte produkter er købt i perioden 9. oktober 2001 til 27. november 2001. For produkter eller indholdsdeklarationer, der er tilsendt, er der registreret den dato i databasen, hvor produkterne eller deklARATIONEN er modtaget. Her har vi importørens garanti for, at produkterne findes på det danske marked i dag. For de private produkter (i alt 9 stk.) gælder, at de kan være købt for et par måneder til omkring et års tid siden. Der er ikke

registreret produkter i databasen, som er blevet bekræftet som udgået. Oplysningerne i databasen repræsenterer derfor markedet, som det ser ud i dag (december 2001).

5.2.10 Stregkode

For alle produkter, der har påtrykt en stregkode, er denne registreret. I alt 264 af de 328 indtastede produkter har angivet en stregkode. At angive en stregkode (EAN-nummer) på et produkt er frivilligt. Stregkoden er et redskab til registrering af varer i forbindelse med lagerstyring og salg. Stregkoden er angivet både ved et tal (EAN-nummeret) og selve stregkoden. De to første cifre angiver, i hvilket land varen er registreret, men ikke nødvendigvis hvor den er produceret. 57 er koden for Danmark (82 af produkterne er registreret med stregkoden begyndende med 57). De næste fem cifre er et markedsføringsnummer for producent, importør eller detailhandel. Herefter følger fem cifre, der er markedsførers interne varenummer, og det sidste er et kontrolciffer. Varens pris er ikke angivet i EAN-nummeret og stregkoden (Mærkningsguiden, 1997).

5.2.11 Batchnummer

Ifølge Kosmetikbekendtgørelsen skal kosmetiske produkter (herunder hårstylingsprodukter) være mærket med fabrikationsseriens nummer eller referenceangivelse, dvs. et batchnummer, således at dato og sted for produktion kan identificeres (BEK 594, 2000). Batchnummeret for alle de kortlagte hårstylingsprodukter er således også registreret i databasen. I alt er 279 ud af de 328 kortlagte produkter påført med batchnummer. For i alt 36 af de undersøgte produkter har producenten/importøren tilsendt indholdsdeklarationen, og for disse produkter, som vi rent fysisk ikke har haft i hånden, er batchnummeret således ikke kendt og derfor ikke indtastet i databasen.

5.2.12 PR-nummer

Fra projektets start var der en forventning om, at PR-nummeret, som fås ved anmeldelse af produktet til Produktregisteret, ville være påført på produkterne. Det har dog vist sig ikke at være tilfældet. Der er således ingen af de undersøgte produkter, hvorpå PR-nummer er angivet. Det er ikke undersøgt, om dette skyldes, at produkterne ikke er anmeldt til Produktregisteret, eller om produkterne er anmeldt, men ikke er påført PR-nummeret.

5.2.13 Eventuelle specifikationer af parfume

Ifølge Kosmetikbekendtgørelsen er det tilstrækkeligt at angive eventuelle parfumeforbindelser under den samlede betegnelse "parfume" (BEK 594, 2000). Det er således ikke påkrævet, at producenterne angiver specifikationer af parfumen. Enkelte producenter har dog gjort det, og for de tilfælde, hvor parfumeindholdet er specificeret yderligere, er dette noteret i databasen. For i alt 34 produkter er der angivet parfumespecifikationer på emballagen.

5.2.14 Eventuelle kommentarer

I databasen er der gjort plads til at notere eventuelle kommentarer om det enkelte hårstylingsprodukt.

5.3 Sammenligning med Forbrugerinformationens undersøgelse

Som beskrevet i baggrunden for projektet har Forbrugerinformationens undersøgelse i foråret 2001 kortlagt indholdet af kemiske stoffer i 76 forskellige hårstyling produkter (Tænk + Test, 2001). Denne undersøgelse viste, at der i de 76 forskellige hårstyling produkter var i alt 268 forskellige kemiske stoffer.

Forbrugerinformationens liste over ingredienser i disse hårstyling produkter er sammenlignet med de i alt 585 kemiske stoffer, der er fundet i denne kortlægning. Det viser sig, at ca. 30 kemiske stoffer, der er fundet som ingredienser i hårstyling produkter i Forbrugerinformationens undersøgelse ikke er fundet i de 328 produkter, der er undersøgt i denne kortlægning.

Forbrugerinformationens udvalgte i alt 16 stoffer til en detaljeret miljø- og sundhedsvurdering. To af disse stoffer (formaldehyd og stearalkonium hectorite) er ikke fundet som ingrediens i de 328 hårstyling produkter kortlagt i denne undersøgelse.

For formaldehyd kan forskellen på denne og Forbrugerinformationens undersøgelse skyldes, at formaldehyd er udvalgt til sundhedsvurderingen i Forbrugerinformationens undersøgelse alene fordi, der er fundet formaldehydreleasere som ingrediens i produkterne. Det fremgår imidlertid ikke af undersøgelsen.

Herudover kan forskellen selvfølgelig skyldes, at det ikke er samtlige produkter, der indgår i Forbrugerinformationens undersøgelse, som også indgår i denne kortlægning. Det er imidlertid kun et fåtal produkter, det drejer sig om, så forskellen er nok i virkeligheden mere et udtryk for, at der hele tiden sker udvikling af produkterne i branchen. Det vil sige, at samme produkter kan have indgået i både Forbrugerinformationens og denne undersøgelse, blot med en ny formulering.

6 Miljø- og sundhedsscreening

Der er foretaget en screening for de væsentligste miljø- og sundhedseffekter for en række stoffer. Formålet med screeningen er at give et overblik over de potentielle miljø- og sundhedseffekter for udvalgte kemiske ingredienser i hårstylingsprodukterne. Ved at foretage en screening frem for en mere detaljeret vurdering er det således også muligt at vurdere en væsentlig større del af de kemiske stoffer indeholdt i hårstylingsprodukterne. Af de i alt 585 kemiske stoffer indeholdt i de 328 undersøgte hårstylingsprodukter er ca. 160 stoffer udvalgt til en miljø- og sundhedsscreening.

6.1 Udvælgelse af kemiske stoffer til miljø- og sundhedsscreening

Det har ikke været muligt i dette projekt at foretage en screening for miljø- og sundhedseffekter af alle de kemiske stoffer indeholdt i de undersøgte hårstylingsprodukter. Det har derfor været nødvendigt at foretage en udvælgelse af hvilke kemiske stoffer, der skulle indgå i miljø- og sundhedsscreeningen.

Kriterierne for udvælgelsen har været følgende:

- Først og fremmest er der udvalgt stoffer, der mistænkes for at have effekter på miljø og sundhed – dog med specielt fokus på sundhed.
- Der er primært udvalgt stoffer, der er veldefinerede, ud fra en forventning om at oplysninger om miljø- og sundhedseffekter er tilgængelige.
- Alle farvestoffer samt konserveringsmidler er udvalgt på grund af en generel mistanke om, at disse grupper kan være allergifremkaldende.
- Der er primært udvalgt monomere stoffer i stedet for polymere, dog er nogle af de hyppigst anvendte polymere udvalgt (se nedenfor).
- Endelig er de hyppigst forekommende kemiske stoffer i de undersøgte hårstylingsprodukter udvalgt for, at screeningen skal give det bedste billede af miljø- og sundhedseffekterne af de kemiske stoffer i hårstylingsprodukterne.

Med baggrund i de registrerede oplysninger om de kemiske stoffer i hårstylingsprodukterne og deres rangordning i de enkelte produkter er det muligt at opstille en prioriteringsrækkefølge af de kemiske stoffer. Bilag E angiver samtlige kemiske ingredienser listet i prioriteret rækkefølge. Prioriteringen er udelukkende baseret på antallet af hårstylingsprodukter, som de enkelte stoffer indgår i. De stoffer, der indgår i flest hårstylingsprodukter, er prioriteret først. Indgår flere stoffer i samme antal hårstylingsprodukter, er stofferne prioriteret efter rangordning. Stoffer med lavest rangordning (dvs. med forventet størst indhold) er prioriteret højest. Rangordningen er dog ikke entydig, da rangordningen og mængden af stoffet afhænger af det totale antal stoffer i produktet, hvilket er meget forskellig fra produkt til produkt.

Bilag F er en liste over de ca. 160 kemiske stoffer, for hvilke der er foretaget en miljø- og sundhedsscreening.

6.2 Miljø- og sundhedsscreening

Miljø- og sundhedsscreeningen er foretaget på baggrund af umiddelbart tilgængelige data vedrørende miljø og sundhed. Dvs. søgninger i listen over farlige

stoffer (BEK733, 2000), i Miljøstyrelsens liste til selvklassificering af farlige stoffer (Miljøstyrelsen, selvklassificering), IARC, samt toksikologiske eller økotoksikologiske data fra forskellige databaser (HSDB, NTP, Ecotox, Chemfate og IRIS). Desuden er Chemfinder brugt i forbindelse med søgning efter fysisk-kemiske parametre for de kemiske stoffer.

Der er søgt efter følgende oplysninger i forbindelse med miljø- og sundhedsscreeningen. Oplysningerne er lagt ind i den oprettede database:

- Fysisk-kemiske parametre
- Oplysninger om sundhed
- Oplysninger om miljøforhold

6.2.1 Fysisk-kemiske parametre

Der er søgt oplysninger om følgende fysisk-kemiske parametre:

- Vandopløselighed
- Smeltepunkt
- Kogepunkt
- Flammepunkt
- Damptryk
- Damptæthed

6.2.2 Oplysninger om sundhed

Der er søgt oplysninger om følgende parametre vedrørende sundhed:

- LD₅₀-værdi oral
- Anden toksicitet
- NOAEL-værdi ("No Observed Adverse Effect Level")
- Allergiske reaktioner
- Kræftfremkaldende effekter
- Reproduktionsskadende effekter
- Mutagene effekter
- LD₅₀-dermal
- Hudabsorption
- Irritation
- Klassificering

På baggrund af disse oplysninger er der angivet en score for den humane toksicitet ("Human effekt") efter UMIP's scoringsmodel, se afsnit 6.2.4.

6.2.3 Oplysninger om miljøforhold

Der er søgt oplysninger om følgende parametre vedrørende miljøforhold:

- LC₅₀ for fisk
- Anden akvatisk toksicitet
- Aerob bionedbrydelighed
- Anaerob bionedbrydelighed
- Biokoncentrationsfaktor (BCF)
- Octanol/vand - fordelingskoefficienten (log K_{ow})
- Klassificering

På baggrund af disse oplysninger er der angivet en score for økotoksicitet bestående af en score for henholdsvis eksponeringen ("Eksponering") og den akvatiske effekt ("Akvatisk effekt") efter UMIP's scoringsmodel.

6.2.4 UMIP's screeningsværktøj

Miljø- og sundhedsscreeningen af de kemiske stoffer i hårstylingsprodukterne er foretaget på baggrund af UMIP's screeningsværktøjer (Hauschild, 1996), der består af en screening for sundhedsmæssige egenskaber, en screening for økotoksicitet samt en efterfølgende rangordning af stofferne. Begge tager udgangspunkt i stoffernes klassificering eller tilsvarende toksiske/økotoksiske egenskaber.

UMIP's screening for *sundhedsmæssige egenskaber* består af en score for effekten af det kemiske stof, der multipliceres med en score for eksponeringen af stoffet. I dette projekt anvendes kun effektscoren, da eksponeringsscoren med rimelighed kan antages at være den samme uafhængig af det kemiske stof (selv om der er forskel på eksponering ved brug af eksempelvis hårspray og gele. Dette kræver imidlertid en mere detaljeret eksponeringsvurdering, som der ikke har været mulighed for at gennemføre i denne screening).

Der kan gives scoren 0, 1, 4 eller 8 for de sundhedsmæssige egenskaber. Scoren 0 gives for velundersøgte stoffer uden klassificering, scoren 1 gives for irriterende og sundhedsskadelige stoffer, scoren 4 gives for ætsende eller giftige stoffer samt stoffer med allergiske effekter, og scoren 8 for stoffer med eksempelvis kræftfremkaldende, reproduktionsskadelige og mutagene egenskaber - se Tabel 6. **Fejl! Ukendt argument for parameter..**

Det skal bemærkes, at for stoffer, der af IARC er grupperet som kræftfremkaldende gruppe 3, dvs. at datagrundlaget er utilstrækkeligt, er der ikke givet en score på 8, men derimod afgivet en score på baggrund af stoffets andre sundhedsmæssige egenskaber.

Tabel 6. **Fejl! Ukendt argument for parameter..**: UMIP's scoremodel for sundhed (Hauschild, 1996)

Effekttype	Score 0	Score 1	Score 4	Score 8
Generelt	Velundersøgte stoffer uden klassificering	Irriterende og sundhedsskadelige stoffer	Ætsende, giftige eller meget giftige stoffer samt stoffer med allergiske eller neurotoksiske effekter og stoffer med irreversible skadevirkninger	Stoffer med kræftfremkaldende, reproduktionsskadelige eller mutagene egenskaber samt stoffer med alvorlige organskader.
Akut toksicitet	Ingen klassificering	Xn; R21-22	T; R23-24-25 Tx; R26-27-28	
Irritation, ætsning	Ingen klassificering	Xi; R36-37-38	C; R34-35-41	
Allergifremkaldende	Ingen klassificering		Xi; R42-43	
Irreversible skadevirkninger/ organskader	Ingen klassificering		Xn eller T; R39, R40 eller R48 i kombination med R20-21-22-23-24-25, R33	Tx; R48 eller R39 i kombination med R26-27-28
Genotoksicitet	Ingen klassificering			T; R46 (Mut1), Xn; R46 (Mut2), R40 (Mut3)
Kræftfremkaldende egenskaber	Ingen klassificering			Xn; R40 (Carc3) T; R45 (Carc1 eller Carc2) (EU klassificering) eller optaget på AT's liste
Reproduktions-toksicitet	Ingen klassificering		Gruppe 1H, 2L, 2M eller 2H(AMI-rapport nr.35/1991)	T; R60 eller R61 (Rep1 eller Rep2) Xn, R62 eller R63 (Rep3), eller gruppe 1L eller 1M (AMI-rapport nr. 35/1991)
Neurotoksicitet	SRI=0 eller 1 (AT-rapport nr. 13 1990)	SRI 2 eller 3 (AT-rapport nr. 13 1990)	SRI 4 eller 5 (AT-rapport nr. 13 1990)	

Bilag F giver en oversigt over resultatet af sundhedsscreeningen for de udvalgte kemiske stoffer. Stofferne er sorteret efter INCI-navn i alfabetisk rækkefølge.

UMIP's screening for *miljømæssige egenskaber* består af en score for eksponering, der multipliceres med en score for økotoksiciteten. Eksponeringsscoren er en kombination af en score for den forventede udledning og en score for stoffets skæbne i miljøet, dvs. nedbrydelighed og bioakkumulerbare egenskaber. I dette projekt er der valgt at se bort fra scoren for den forventede udledning, da den med rimelighed kan antages at være identisk for alle alternativer. Eksponeringsscoren kan derfor være 1 eller 4. Scoren 4 gives for stoffer, der ikke er let nedbrydelige, som er potentielt bioakkumulerbare, og *som samtidig* har en lav LC₅₀-værdi over for fisk (LC₅₀ < 10 mg/l). Alle andre stoffer tildeles den neutrale score 1.

Tabel 6. **Fejl! Ukendt argument for parameter.:** UMIP's scoremodel for økotoksicitet (Tilpasset dvs. bl.a. terrestrisk økotoksicitet udeladt)

Score	Akvatisk økotoksicitet	Ekspone- ring
4	LC ₅₀ ≤ 1 mg/l R50	Klassificeret med R53 (ikke let nedbrydelig) eller R58 (log K _{OW} ≥ 3)
2	1 mg/l < LC ₅₀ ≤ 10 mg/l R51	
1	10 mg/l < LC ₅₀ ≤ 100 mg/l R52	Hvis let nedbrydeligt eller ikke bioakkumulerbart
0	> 100 mg/l	

Økotoksicitetsscoren består af en score for akvatisk toksicitet og terrestrisk toksicitet. Generelt gælder det, at oplysninger om terrestrisk toksicitet er meget sparsomme. Da terrestrisk toksicitet ikke vurderes at være relevant for hårstylingsprodukter (det formodes, at vandmiljø er det mest relevante), er den terrestriske toksicitet udeladt af screeningen. Scoren for akvatisk toksicitet er 0, 1, 2 eller 4 afhængig af LC₅₀-værdien for fisk for de angivne stoffer. Scoren 0 angiver en LC₅₀-værdi på > 100 mg/l. Scoren 4 angiver en LC₅₀-værdi på under 1 mg/l (se Tabel 6. **Fejl! Ukendt argument for parameter.**).

I bilag F er økotoksicitetsscoren angivet for hvert af de undersøgte stoffer. Økotoksicitetsscoren er angivet som to individuelle scorere. Først scoren for "Eksponering", herefter scoren for "Akvatisk effekt". I nogle tilfælde har det ikke været muligt at give alternativerne en score efter screeningsmetoden, da der ikke er fundet nogle oplysninger i databaserne. Dette er angivet ved en streg ("-").

Ifølge UMIP's screeningsmetode skal der tildeles scoren 8 i alt, hvis der ikke findes human eller økotoksicitet data for stoffet. Dette er begrundet i et forsigtighedsprincip. Det er valgt i denne miljø- og sundhedsscreening ikke at angive en score for situationer, hvor data er utilstrækkelige eller manglende. I stedet er dette angivet ved en streg ("-"). I bilag F er scoren for sundhed angivet i kolonnen "Human effekt".

For en række produkter har det ikke været muligt at foretage en vurdering efter UMIP's screeningsmetode pga. manglende informationer, dvs. det har ikke været muligt at finde nogle informationer om miljø og sundhed i de nævnte databaser. Det betyder således ikke, at disse produkter er "godkendte" i screeningen, men blot at en vurdering ikke er mulig på baggrund af de foreliggende informationer. I sådanne tilfælde er manglende informationer markeret i databasen med "Nothing found". For nogle stoffer har det ikke været muligt at finde oplysninger om alle de undersøgte parametre (fysisk-kemiske, sundhed og miljø). I disse tilfælde er det for denne parameter angivet i databasen med "Not found".

Grøn Information indsamlede i 1998 informationer om mere end 500 forskellige kemiske stoffer anvendt i kosmetikprodukter. Disse informationer er tilgængelige på Grøn Informations hjemmeside⁷. Siden opdateres jævnligt, efterhånden som nye informationer dukker op. I de tilfælde, hvor det ikke har været muligt at finde nogle oplysninger om miljø eller sundhed for de udvalgte kemiske stoffer, er det undersøgt, om der er informationer tilgængelige på Grøn Informations hjemmeside for disse stoffer. Der er således suppleret med oplysninger fra Grøn Information - dog primært på miljøsidens, da oplysningerne på hjemmesiden primært berører miljøforhold for stofferne.

For screeningen gælder det generelt, at der i langt de fleste tilfælde ikke er fundet oplysninger nok om de udvalgte stoffer til at give stofferne en "endegyldig" score. Det vil sige, at mange af de stoffer, der har fået tildelt en score, har fået tildelt en score på baggrund af de fundne men sparsomme oplysninger. Foreligger der eksempelvis blot oplysninger om stoffets LD₅₀-værdi, er scoren givet på baggrund af kun denne ene oplysning.

6.3 Resultater af miljø- og sundhedsscreeningen

I det følgende præsenteres resultaterne af screeningen for stoffernes miljø- og sundhedseffekter. Stofferne er opdelt i grupper efter deres funktion og behandles gruppevis. Flere stoffer er i INCI-listen markeret ved flere funktioner. Disse stoffer er dog kun vurderet under én af deres funktioner, så vidt muligt den primære funktion, men stofferne står listet under samtlige af deres funktioner. Stofferne refereres ved deres INCI-navne; de kemiske navne fremgår af bilag F (opdelt alfabetisk efter INCI-navn).

Det gælder generelt for screeningen, at vurderingen af de kemiske stoffer udelukkende er foretaget på baggrund af oplysninger om miljø- og sundhedsmæssige forhold, der har været tilgængelige i de udvalgte databaser. Der kan således være miljø- og sundhedsmæssige oplysninger, der ikke er taget højde for. Herudover kan screeningen ikke tage forbehold for eventuelle synergi- eller antagoniske effekter af indholdsstofferne i hårstylingsprodukterne, dvs. at stoffer i kombination udviser henholdsvis kraftigere eller svagere effekt, end hvis de forekom alene.

Generelt er de fundne sundhedsmæssige oplysninger et udtryk for stoffernes sundhedsmæssige egenskaber i ren form. Stofferne vil således forekomme i væsentligt lavere koncentrationer i hårstylingsprodukterne end den koncentration, der er anvendt for stoffet i de toksikologiske forsøg. Desuden er mange stoffer undersøgt for administrationsveje, der ikke er relevante for hårstylingsprodukter (bl.a. oral indtagelse). En mere detaljeret undersøgelse og vurdering af de enkelte indholdsstoffer vil kunne tage højde for dette.

Et eksempel er natriumhydroxid, som i sin rene form er ætsende. Natriumhydroxid anvendes som pH-regulator i hårstylingsprodukterne og forekommer således kun i mindre mængder i produkterne og vil være neutraliseret og derfor ikke udvise irriterende egenskaber.

Ingredienserne kan således i screeningen komme til at fremstå mere problematiske, end de i virkeligheden er som ingrediens i hårstylingsprodukterne.

⁷ Grøn Informations hjemmeside (www.greeninfo.dk) under kemi.

På miljø siden er det udelukkende stoffernes toksicitet over for vandlevende organismer og deres mulige skæbne i vandmiljøet i form af evne til bioakkumulering samt nedbrydelighed, der er vurderet. Det er ikke muligt at udtale sig om eksponeringen af stofferne i miljøet, da eksponeringsvejen er lang og formentlig ikke klar. Stofferne i hårstylingsprodukterne kommer i kontakt med vandmiljøet, når håret vaskes efter brug af hårstylingsprodukterne, eller når hænderne vaskes for rester af gele, creme mm. Det er dog ikke vurderet hvor store mængder, der er tale om. En vis mængde af hårstylingsproduktet må formodes at fordampe (for spray) eller smitte af i tøj, sengetøj, hænder, børster m.m. inden hårvask.

Sundhedseffekter ved kontakt med hårstylingsprodukterne er således mere væsentlige end miljøeffekterne.

Miljøscreeningen består som beskrevet af en vurdering af stoffernes toksicitet over for vandlevende organismer samt en vurdering af stoffernes skæbne i vandmiljøet, dvs. om stofferne er bionedbrydelige og/eller bioakkumulerbare. En detaljeret eksponeringsvurdering er ikke foretaget, og der er således blot tale om stoffernes *potentielle* miljøbelastende egenskaber. På baggrund af de to miljøscorer for henholdsvis akvatiske toksicitet og stoffernes skæbne i vandmiljøet vil de udvalgte stoffer blive præsenteret i følgende grupper:

- *Stoffer, der ikke kan vurderes:* Stoffer, hvor der hverken er fundet miljøoplysninger for stoffets akvatiske toksicitet eller stoffernes skæbne.
- *Ikke miljøbelastende stoffer:* Stoffer, der er let nedbrydelige, og som samtidigt ikke er giftige for vandlevende organismer eller er mindre giftige (skadelige) over for vandlevende organismer.
- *Mindre miljøbelastende stoffer:*
 - a) Stoffer, der er let nedbrydelige, men som er giftige eller meget giftige for vandlevende organismer.
 - b) Eller stoffer som ikke er skadelige over for vandlevende organismer, men som er bioakkumulerende og ikke let nedbrydelige.
- *Potentielt miljøbelastende stoffer:* Stoffer, der ikke er let nedbrydelige og som er bioakkumulerbare, og som samtidigt er skadelige eller giftige for vandlevende organismer.
- *Potentielt meget miljøbelastende stoffer:* Stoffer, der ikke er let nedbrydelige, og som er bioakkumulerbare, og som samtidigt er meget giftige over for vandlevende organismer.

For enkelte stoffer er der kun fundet oplysninger om enten den akvatiske giftighed for stofferne eller om stoffernes skæbne i vandmiljøet. I disse tilfælde grupperes stofferne i den værste mulige kategori (worst case) med en bemærkning om hvilke oplysninger, der mangler. Eksempelvis vil stoffer uden oplysninger om den akvatiske toksicitet, men med oplysninger om at stoffet er let nedbrydeligt, blive placeret i gruppen ”mindre miljøbelastende stoffer”.

I det følgende vil resultaterne af miljø- og sundhedsscreeningen blive gennemgået for de stoffer, der er udvalgt til screeningen. Stofferne gennemgås efter deres funktion. Flere stoffer er i INCI-listen markeret ved flere funktioner. Disse stoffer er dog kun vurderet under én af deres funktioner, så vidt muligt den primære funktion, men stofferne står listet under samtlige af deres funktioner. Stofferne refereres ved deres INCI-navne. I gennemgangen vil der ikke være henvisninger til de generelle referencer, da disse fremgår af databasen.

6.3.1 Filmdannere og bindere

Filmdannere og bindere har til formål at stabilisere håret, så det er muligt at style/sætte det. Filmdannere og bindere er således en vigtig ingrediens i hårstylingsprodukter og forekommer derfor også i mange produkter samt i alle typer af hårstylingsprodukter. De udvalgte filmdannere og bindere er nogle af de hyppigst forekommende stoffer, se Tabel 6.**Fejl! Ukendt argument for parameter..**

Tabel 6. **Fejl! Ukendt argument for parameter.:** Filmdannere og bindere udvalgt til screening

ACRYLATES COPOLYMER	(i 17 produkter)
OCTYLACRYLAMIDE / ACRYLATES BUTYLAMINOETHYL METHACRYLATE COPOLYMER	(i 30 produkter)
POLYQUATERNIUM-4	(i 25 produkter)
POLYQUATERNIUM-11	(i 44 produkter)
POLYQUATERNIUM-16	(i 20 produkter)
PVP	(i 64 produkter)
PVP / VA COPOLYMER	(i 91 produkter)

6.3.1.1 Sundhedsscreening

For disse stoffer gælder det generelt, at det er meget begrænsede oplysninger, som er fundet i de databaser, der er søgt i. Der er hverken fundet fysisk-kemiske data eller sundhedsoplysninger for hovedparten af stofferne. Der er kun fundet få data for PVP (polyvinylpyrrolidon). PVP er et fast stof ved stuetemperatur, hvilket højst sandsynligt også gælder for resten af gruppens stoffer, da de alle har til formål at afstive håret.

De få sundhedsoplysninger, der er fundet for PVP viser, at PVP har en meget lav akut toksicitet (en høj LD₅₀-værdi) og skal på baggrund af denne ikke klassificeres i henhold til bekendtgørelsen om klassificering, emballering, mærkning, salg og opbevaring af kemiske stoffer og produkter. PVP er udvalgt og vurderet af IARC og er grupperet som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige.

For gruppen af filmdannere og bindere har det således ikke været muligt at give hovedparten af stofferne en sundhedsscore. PVP, der har kunnet få en score, opnår en score på 0 på baggrund af den lave fundne LD₅₀-værdi.

Polymerer har en stor molekylvægt og kan på baggrund af denne ikke optages gennem huden. Generelt forventes polymererne således at have en lav akut giftighed. Polymerer kan dog have et restindhold af monomerer, som kan udvise sundhedsskadelige effekter. Indholdet af frie monomerer er ikke kendt, men typisk mindre end 0,1%.

6.3.1.2 Miljøscreening

For filmdannere og bindere gælder det generelt, at det er meget begrænsede oplysninger, som er fundet i de databaser, der er søgt i. Der er kun fundet miljøoplysninger for acrylat copolymer, men polymere stoffer og andre stoffer med stor molekylvægt udviser ofte ringe akvatisk toksicitet.

Stoffer, der ikke kan vurderes:

- PVP
- PVP /VA Copolymer
- Polyquaternium-4
- Polyquaternium-11
- Polyquaternium-16
- Octylacrylamid / acrylat butylaminoethyl methacrylat copolymer

Potentielt miljøbelastende stoffer:

- Acrylat copolymer

6.3.2 Blødgøringsmidler

Blødgøringsmidler tilsættes hårstylingsprodukter for at blødgøre eller udglatte. Blødgøringsmidler findes i alle typer af hårstylingsprodukter.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Blødgøringsmidler udvalgt til screening

CETYL ALCOHOL	(i 7 produkter)
CYCLOMETHICONE	(i 24 produkter)
CYCLOPENTASILOXANE	(i 15 produkter)
DIISOBUTYLADIPATE	(i 3 produkter)
DIISOPROPYLADIPATE	(i 1 produkt)
DIMETHICONE	(i 21 produkter)
DIMETHICONE COPOLYOL	(i 82 produkter)
DIMETHICONOL	(i 12 produkter)
ISODODECANE	(i 6 produkter)
ISOHEXADECANE	(i 1 produkt)
OCTYL PALMITATE	(i 2 produkter)
OCTYLDODECANOL	(i 9 produkter)
OCTYLDODECYL NEOPENTANOATE	(i 3 produkter)
PARAFFINUM LIQUIDUM	(i 21 produkter)
PETROLATUM	(i 26 produkter)
PHENYLTRIMETHICONE	(i 18 produkter)
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	(i 2 produkter)
STEARYL ALCOHOL	(i 2 produkter)

6.3.2.1 Sundhedsscreening

For blødgøringsmidlerne gælder generelt, at der ikke er fundet specielt mange oplysninger om hverken deres sundhedsmæssige egenskaber eller deres fysisk-kemiske parametre. Cetylalkohol, diisobutyladipate og cyclopentasiloxan er flydende ved stuetemperatur, mens petrolatum (en kompleks blanding af hydrocarboner - primært mættede krystallinske og flydende hydrocarboner >C25) og stearylalkohol er faste stoffer ved stuetemperatur.

På baggrund af de få fundne oplysninger udviser dimethicon og dimethicon copolyol ikke nogen effekt på sundheden og har således opnået laveste score. For gruppen af "methiconer" (dvs. "phenyltrimethicone", "dimethicone", "dimethiconol", "dimethicone copolyol" og "cyclomethicone") er der generelt fundet meget få oplysninger. Methiconerne findes imidlertid i mange produkter, hvorfor deres sundhedsmæssige effekter af denne grund bør undersøges nærmere.

Stearylalkohol og cetylalkohol er begge hudirriterende stoffer, men stearylalkohol har udvist følsomhedsreaktioner i "plastertest" (patch test).

For "petrolatum" er der identificeret to forskellige CAS-numre (8009-03-8 og 8020-83-5). For det ene CAS-nummer (8009-03-8) er "petrolatum" klassificeret som kræftfremkaldende (EU Carc2), fordi det indeholder benzen i carcinogene mængder. Petrolatum repræsenteret ved det andet CAS-nummer (8020-83-5) derimod, har et benzenindhold på mindre end 0,1% og skal således ikke klassificeres. Det er sædvanligvis den ikke-klassificerede type af petrolatum, der bruges i kosmetiske produkter, fordi dens indhold af benzen er så lavt.

"Paraffinum liquidum" (flydende hydrocarboner - petroleumdestillat) er udvalgt og vurderet af IARC og grupperet som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige.

For diisobutyladipat er der oplysninger, der viser, at stoffet ved reproduktionsforsøg har fremkaldt misdannelser i fostre.

For de resterende stoffer er der ikke fundet nogle sundhedsoplysninger.

For gruppen af blødgøringsmidler har det således ikke været muligt at give hovedparten af stofferne en sundhedsscore. For de stoffer, det har været muligt at give en score, er der givet scorerne 0 (ikke sundhedsskadelige), 1 (irriterende) og 8 (eventuelt kræftfremkaldende).

6.3.2.2 Miljøscreening

For blødgøringsmidlerne gælder generelt, at der ikke er fundet specielt mange oplysninger. Der er fundet miljøoplysninger for ca. halvdelen af stofferne.

Stoffer, der ikke kan vurderes:

- Phenyltrimethicon
- Diisopropyladipat
- Octylpalmitat
- Octyldodecylneopentanoat
- Propylenglycoldicaprylat / dicaprat
- Octyldodecanol

Ikke miljøbelastende stoffer:

- Dimethicon copolyol

Potentielt miljøbelastende stoffer:

- Dimethicon
- Dimethiconol
- Diisobutyladipat
- Cyclomethicon
- Cetylalkohol
- Petrolatum (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- Paraffinolie (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

Potentielt meget miljøbelastende stoffer:

- Isododecan (N, R50/53)
- Isohexadecan (N, R50/53)
- Stearylalkohol (ikke let nedbrydelig, bioakkumulerende, data vedr. den akvatiske toksicitet er dog ikke fundet)
- Cyclopentasiloxan (potentielt bioakkumulerende, resistent over for aerob nedbrydning, data vedr. den akvatiske toksicitet er dog ikke fundet)

Isododecan og isohexadecan er foreslået klassificeret som miljøfarlig (Miljøstyrelsens selvklassificering) på grundlag af, at de er meget giftige over for akvatiske organismer og kan forårsage uønskede langtidsvirkninger i vandmiljøet. Stearylalkohol og cyclopentasiloxan er begge vurderet at være ikke let nedbrydelige og potentielt bioakkumulerende stoffer. Da der ikke er fundet oplysninger om disse stoffers akvatiske toksicitet, vurderes de som "worst case", dvs. som potentielt meget miljøbelastende stoffer.

6.3.3 Opløsningsmidler

Opløsningsmidler forekommer i alle hårstylingsprodukter og har til formål at opløse ingredienserne i produktet. Det mest brugte opløsningsmiddel er vand. Vand forekommer i 257 ud af de 328 produkter, dvs. at ca. 78% af de undersøgte

hårstylingprodukter er vandbaserede. I de vandbaserede hårstylingprodukter forekommer der dog også et eller flere af de nedenfor angivne opløsningsmidler, se Tabel 6. **Fejl! Ukendt argument for parameter..**

Hovedparten af opløsningsmidlerne er væsker ved stuetemperatur. Undtagelsen er *t*-butyl alcohol, der først smelter ved ca. 25 grader.

Tabel 6. **Fejl! Ukendt argument for parameter..**: Opløsningsmidler udvalgt til screening

ACETONE	(i 1 produkt)
ALCOHOL DENAT.	(i 161 produkter)
BUTYLENE GLYCOL	(i 7 produkter)
DIPROPYLENE GLYCOL	(i 5 produkter)
ETHOXYDIGLYCOL	(i 3 produkter)
HEXYLENE GLYCOL	(i 2 produkter)
ISOPENTANE	(i 2 produkter)
ISOPROPYL ALCOHOL	(i 20 produkter)
PENTANE	(i 7 produkter)
PROPYLENE GLYCOL	(i 81 produkter)
T-BUTYL ALCOHOL	(i 1 produkt)
TRIETHYLENE GLYCOL	(i 1 produkt)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
BENZYL ALCOHOL	6.3.7 Konservering.
CYCLOMETHICONE	6.3.2 Blødgøringsm.
DIMETHYL ETHER	6.3.4 Drivmiddel
GLYCERIN	6.3.14
ISOHEXADECANE	Fugtbevarende
OCTYLDODECANOL	6.3.2 Blødgøringsm.
PARAFFINUM LIQUIDUM	6.3.2 Blødgøringsm.
TRIETHYL CITRATE	6.3.2 Blødgøringsm. 6.3.13 Antioxidant

6.3.3.1 Sundhedsscreening

Alle opløsningsmidler er rimeligt velbeskrevne stoffer i litteraturen, og der er således fundet sundhedsoplysninger om alle opløsningsmidlerne. Dipropylenglycol vurderes ikke at have nogle alvorlige effekter på sundheden, hvorimod de resterende af de nævnte opløsningsmidler alle er hud- og/eller øjenirriterende stoffer i mere eller mindre grad. For pentan er kun set irriterende effekter ved langvarig kontakt med huden.

Propylenglycol regnes for mindre hudskadeligt, og hexylenglycol sandsynligvis endnu mindre hudskadeligt. Der er oplysninger, der tyder på, at hexylenglycol kan forårsage en snigende kontaktallergi (Fokus nr. 35, 1996).

Butylalkoholer optages let gennem huden og virker affedtende på huden. Ligeledes kan de forårsage kontakteksem på hænderne, og der er set eksempler på, at hudpræparater baseret på *t*-butylalkohol har forårsaget kontaktallergi (Fokus nr. 53, 1996).

Isopropylalkohol fremkalder teratogene og reproduktionsskadelige effekter i dyreforsøg (dvs. skadelige for fostre og reproduktionsevnen).

Mht. alkohol findes der både denatureret alkohol og alkohol i hårstylingprodukterne, dog i langt de fleste tilfælde denatureret alkohol. Der er kun undersøgt sundhedsforhold for ren alkohol, da denatureringsmidlet ikke er kendt. Alkohol er kræftfremkaldende for mennesker (IARC gruppe 1) ved oral indtagelse. Dette har dog ikke relevans for hårstylingprodukter, da produkterne ikke vil blive indtaget oralt i de mængder, der skal til, og hvis de gør, er det højst sandsynligt andre effekter, der vil være fremtrædende.

For gruppen af opløsningsmidler har det været muligt at give alle stofferne en sundhedsscore. Der er givet scorene 0 (ikke sundhedsskadelige), 1 (irriterende) og 8 (har udvist kræftfremkaldende og reproduktionsskadelige egenskaber i dyreforsøg).

6.3.3.2 Miljøscreening

Der er fundet miljøoplysninger for alle de ovenfor nævnte opløsningsmidler og størstedelen af opløsningsmidlerne vurderes på det foreliggende grundlag ikke at være miljøbelastende stoffer.

Ikke miljøbelastende stoffer:

- Isopropylalkohol
- Acetone
- *t*-butylalkohol
- Dipropylenglycol
- Butylenglycol
- Ethoxydiglycol
- Propylenglycol
- Denatureret alkohol
- Triethylenglycol
- Hexylenglycol

Mindre miljøbelastende stoffer:

- Dimethylether

Potentielt miljøbelastende stoffer:

- Pentan
- Isopentan

6.3.4 Drivmidler

Drivmidler tilsættes hårstylningsprodukter for at forstøve (i hårspray) eller tilføre volumen (i skum) til produktet. Drivmidler findes hovedsageligt i hårspray eller skum. Drivmidlerne er alle på gasform ved stuetemperatur.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Drivmidler udvalgt til screening

BUTANE	(i 96 produkter)
DIMETHYL ETHER	(i 27 produkter)
HYDROFLUOROCARBON - 152A	(i 1 produkt)
ISOBUTANE	(i 62 produkter)
PROPANE	(i 93 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
ISOPENTANE	6.3.3 Opløsningsm.
PENTANE	6.3.3 Opløsningsm.

6.3.4.1 Sundhedsscreening

Hydrofluorcarbon 152a (HFC-152a) og isobutan er begge irriterende for øjnene, og har især i form af hårsprayprodukter en mulighed for at komme i øjnene. Butan, hydrofluorcarbon 152a og propan er alle hudirriterende stoffer.

Isobutan, der forekommer i en lang række produkter, er grupperet af EU som kræftfremkaldende gruppe 2 (EU Carc2), dvs. det kan fremkalde kræft hos mennesker, hvis det vel at mærke indeholder mere end 0,1% butadien. Ved et indhold på under 0,1% butadien skal isobutan blot klassificeres som yderst brandfarlig. Pentan kan have reproduktionsskadelige effekter i form af spontane aborter ved udsættelse for stoffet under graviditeten. For begge stoffer gælder

imidlertid, at risikoen vurderes at være størst ved brug i hårspray, da der her er mulighed for indånding og optagelse af disse stoffer ved brug af produktet.

For gruppen af drivmidler har det været muligt at give alle stofferne en score. Scorene fordeler sig på scorene 1 (irriterende) og 8 (kræftfremkaldende).

6.3.4.2 Miljøscreening

Drivmidlerne er alle på gasform ved stuetemperatur undtagen pentan og isopentan, der begge først er gasser ved omkring 30-36 grader C. Drivmidlerne vil således højst sandsynligt ikke komme i kontakt med vandmiljøet.

Ikke miljøbelastende stoffer:

- Butan
- Isobutan
- Propan

Potentielt meget miljøbelastende stoffer:

- HFC-152a

HFC-152a er vurderet at være mindre miljøbelastende (for vandmiljøet) ud fra den anvendte screeningsmetode, men HFC-152a er en drivhusgas med et potentiale på 140 CO₂-eg./kg gas (GWP₁₀₀). HFC-152a bør derfor grupperes som et potentielt meget miljøbelastende stof.

6.3.5 Viskositetsregulerende/fortykkelsesmidler

Viskositetsregulerende midler, herunder fortykkelsesmidler, tilsættes hårstylingsprodukterne for at ændre på viskositeten af hårstylingsprodukterne. Fortykkelsesmidler er alle faste stoffer ved stuetemperatur og har til formål at sænke viskositeten. De nedenfor beskrevne fortykkelsesmidler (se Tabel 6.**Fejl! Ukendt argument for parameter.**) findes således primært i de mere tyktflydende produkter såsom gele, voks og creme, selvom de dog forekommer i alle typer af hårstylingsprodukter.

Tabel 6.**Fejl! Ukendt argument for parameter.**: Viskositetsregulerende midler/fortykkelsesmidler udvalgt til screening

CARBOMER	(i 70 produkter)
SODIUM CHLORIDE	(i 2 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
CETYL ALCOHOL	6.3.2 Blødgøringsm.
CYCLOMETHICONE	6.3.2 Blødgøringsm.
DISODIUM EDTA	6.3.15 Kompleksdan.
MAGNESIUM ALUMINIUM SILICATE	6.3.16
STEARYL ALCOHOL	Absorberingsm. 6.3.2 Blødgøringsm.

6.3.5.1 Sundhedsscreening

Natriumchlorid (salt) har milde hud- og øjenirriterende egenskaber og skal ikke klassificeres som et farligt stof.

Carbomer er grupperet af IARC til at være kræftfremkaldende gruppe 3, dvs. at det har ikke været muligt at vurdere dets kræftfremkaldende egenskaber, da der i dette tilfælde har været manglende data.

6.3.5.2 Miljøscreening

Natriumchlorid (salt) er selvfølgelig ikke et problem i havområder, men kan være et problem for ferskvandsområder. Derfor vurderes det som værende mindre miljøbelastende.

Mindre miljøbelastende stoffer:

- Natriumchlorid (kan være et problem for ferskvandsområder)

Potentielt miljøbelastende stoffer:

- Carbomer

6.3.6 Overfladeaktive stoffer og emulgatorer

Denne gruppe dækker over overfladeaktive stoffer, emulgatorer og emulsionsstabilisatorer. Stoffernes primære funktion i hårstylingsprodukterne er at være i stand til at blande hydrofile (vand"elskende") og hydrofobe (vandskyende) stoffer. Disse stoffer indgår derfor i alle typer af hårstylingsprodukter.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Overfladeaktive stoffer og emulgatorer udvalgt til screening

CAPRYLYL PYRROLIDONE	(i 3 produkter)
COCAMIDOPROPYL BETAINE	(i 10 produkter)
LAURETH-4	(i 14 produkter)
NONOXYNOL-10	(i 1 produkt)
NONOXYNOL-14	(i 1 produkt)
OCTOXYNOL-40	(i 1 produkt)
PEG-40 HYDROGENATED CASTOR OIL	(i 56 produkter)
POLYSORBATE 20	(i 22 produkter)
SODIUM LAURYL SULFATE	(i 4 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
CETYL ALCOHOL	6.3.2 Blødgøringsm.
TALLOWTRIMONIUM CHLORIDE	6.3.7 Konservering

6.3.6.1 Sundhedsscreening

Der er kun fundet oplysninger for ca. halvdelen af de ovenfor nævnte stoffer. Ifølge de fysisk-kemiske oplysninger er stofferne enten faste eller flydende stoffer ved stuetemperatur.

For polysorbat-20 er der kun fundet oplysninger om dets NOAEL-værdi (> 5000 mg/kg/dag), dvs. stoffet ikke kan betragtes som sundhedsskadeligt.

Nonoxynol-14 og "PEG-40 hydrogenated castor oil" er hudirriterende stoffer, og natriumlaurylsulfat er i ren form et stærkt hudirriterende stof. For nonoxynol-14 er der derimod kun set hudirritation ved langvarig og gentagen hudkontakt, hvilket dog må forventes at kunne forekomme ved brug af samme hårstylingsprodukt over en lang periode.

Caprylylpyrrolidon er i ren form et ætsende stof, men vil formentlig i de koncentrationer, det findes i hårstylingsprodukter, blot udvise irriterende egenskaber.

Natriumlaurylsulfat er allergifremkaldende (mildt allergen), og det har fremkaldt misdannelser på fostre i dyreforsøg.

Nonoxynol-10, nonoxynol-14 og octoxynol-40 er henholdsvis nonylphenoethoxylater og octylphenoethoxylater, der mistænkes for at have østrogenlignende effekter.

For gruppen af overfladeaktive stoffer og emulgatorer har det været muligt at give ca. halvdelen af stofferne en score. Scorene fordeler sig på scorene 0 (ikke sundhedsskadelige), 1 (irriterende), 4 (ætsende) og 8 (har udvist reproduktionsskadelige egenskaber i dyreforsøg).

6.3.6.2 Miljøscreening

Der er kun fundet oplysninger for ca. halvdelen af de ovenfor nævnte stoffer. For nonoxynol-10, nonoxynol-14 og octoxynol-40 gælder, at disse stoffer er henholdsvis nonylphenoethoxylater og octylphenoethoxylater, der er svært nedbrydelige og anses for potentielt meget miljøbelastende stoffer (selvom screeningens resultater - eller mangel på samme - ikke indikerer dette). Inden for vaske- og rengøringsmidler har Brancheforeningen SPT og Miljøstyrelsen indgået en frivillig aftale om reduktion i brugen af disse stoffer (Frivillig aftale af 21.12.1987).

Ikke miljøbelastende stoffer:

- PEG-40 hydrogenated castor oil
- Polysorbat-20

Mindre miljøbelastende stoffer:

- Natriumlaurylsulfat
- Cocamidopropylbetain

Potentielt miljøbelastende stoffer:

- Caprylylpyrrolidon

Potentielt meget miljøbelastende stoffer:

- Nonoxynol-10
- Nonoxynol-14
- Octoxynol-40
- Laureth-4 (N, R50/53)

Laureth-4 (3,6,9,12-tetraoxatetracosan-1-ol) er vurderet at være potentielt meget miljøbelastende, idet den foreslåede klassificering er N (miljøfarlig), R50/53 (Miljøstyrelsens selvklassificering). Der er ikke fundet andre oplysninger om stoffets bioakkumulerbarhed, bionedbrydelighed eller akvatiske toksicitet.

6.3.7 Konserveringsmidler

Konserveringsmidler forekommer i alle typer af hårstylingsprodukter og højst sandsynligt i alle hårstylingsprodukter og har udelukkende til formål at give produktet en længere holdbarhed.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Konserveringsmidler udvalgt til screening

2-BROMO-2-NITRO-PROPANE-1,3-DIOL	(i 2 produkter)
AMMONIUM BENZOATE	(i 3 produkter)
BEHENTRIMONIUM CHLORIDE	(i 3 produkter)
BENZALKONIUM CHLORIDE	(i 1 produkt)
BENZOIC ACID	(i 4 produkter)
BENZYL ALCOHOL	(i 14 produkter)
BUTYLPARABEN	(i 28 produkter)
CETRIMONIUM BROMIDE	(i 1 produkt)
CETRIMONIUM CHLORIDE	(i 28 produkter)
CHLOROACETAMIDE	(i 1 produkt)
CHLORPHENESIN	(i 1 produkt)
DIAZOLIDINYL UREA	(i 13 produkter)
DMDM HYDANTOIN	(i 27 produkter)
ETHYLPARABEN	(i 27 produkter)

IMIDAZOLIDINYL UREA	(i 1 produkt)
IODOPROPYNYL BUTYLCARBAMATE	(i 6 produkter)
ISOBUTYLPARABEN	(i 14 produkter)
ISOPROPYLPARABEN	(i 2 produkter)
METHYLCHLOROISOTHIAZOLINONE	(i 8 produkter)
METHYLDIBROMO GLUTARONITRILE	(i 11 produkter)
METHYLISOTHIAZOLINONE	(i 8 produkter)
METHYLPARABEN	(i 75 produkter)
PHENOXYETHANOL	(i 58 produkter)
POTASSIUM SORBATE	(i 8 produkter)
PROPYLPARABEN	(i 52 produkter)
SODIUM BENZOATE	(i 10 produkter)
SODIUM BISULFITE	(i 1 produkt)
SODIUM HYDROXYMETHYLGLYCINATE	(i 2 produkter)
SODIUM METABISULFITE	(i 1 produkter)
SODIUM METHYLPARABEN	(i 3 produkter)
SORBIC ACID	(i 5 produkter)
TALLOWTRIMONIUM CHLORIDE	(i 2 produkter)

6.3.7.1 Sundhedsscreening

Det er kun enkelte af de nævnte konserveringsmidler, det ikke har været muligt at finde nogle oplysninger om. Stort set alle konserveringsmidler er faste stoffer ved stuetemperatur. Kun phenoxyethanol og benzylalkohol er væsker ved stuetemperatur.

Ammoniumbenzoat og kaliumsorbat irriterer både hud og øjne. Butylparaben kan være hudirriterende og kan eventuelt fremkalde allergi, men det er sjældent set. Damp fra cetrimoniumchlorid er irriterende for øjnene, men dette er ikke relevant for hårstylingsprodukter, da stoffet vil forekomme i opløst form. Natriumbenzoat er irriterende i store doser, men konserveringsmidler vil ikke forekomme i store doser i hårstylingsprodukter, hvorfor natriumbenzoat vurderes ikke at give sundhedsskadelige effekter ved brug i hårstylingsprodukter.

2-Brom-2-nitropropan-1,3-diol skal mærkes sundhedsskadeligt og lokalirriterende (hudirriterende), og den fundne LD₅₀-værdi for rotter indikerer, at stoffet er akut giftigt ved indtagelse. Det vurderes dog ikke at få alvorlige konsekvenser, selv hvis børn ved et uheld skulle komme til at indtage store mængder hårstylingsprodukt, da stoffet som konserveringsmiddel maksimalt må indgå i en koncentration på 0,1% i kosmetiske produkter (ifølge BEK 594, 2000).

Herudover kan en lang række af de undersøgte konserveringsmidler fremkalde allergi og allergiske reaktioner. Det drejer sig om:

- Benzalkoniumchlorid
- Benzosyre
- Butylparaben (allergiske reaktioner ses dog sjældent)
- Chlorphenesin
- Ethylparaben
- Isobutylparaben
- Methylchlorisothiazolinon (er et kendt allergen)
- Methyldibromglutaronitril
- Methylisothiazolinon (er et kendt allergen)
- Methylparaben
- Propylparaben
- Sorbinsyre
- Benzylalkohol
- Chloroacetamid

Phenoxyethanol har udvist reproduktionsskadelige effekter i dyreforsøg. De fundne oplysninger er tvetydige, idet der både omtales en ”væsentlig reproduktiv toksicitet” for stoffet samt ”ingen skadelige effekter ved nogen dosis på fødselsrate eller på fostervægt”.

Chloroacetamid er giftig ved indtagelse og skal klassificeres som allergifremkaldende og reproduktionsskadende (EU Rep3).

IARC grupperer natriummetabisulfit som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige.

For gruppen af konserveringsmidler har det været muligt at give ca. halvdelen af stofferne en score. Scorerne fordeler sig på scorerne 1 (irriterende), 4 (allergifremkaldende) og 8 (reproduktionsskadende).

6.3.7.2 *Miljøscreening*

Stoffer, der ikke kan vurderes:

- Natrium methylparaben
- Chlorphenesin
- Kaliumsorbat
- Natriumhydroxymethylglycinat
- Natriummetabisulfit
- Chloroacetamid (ingen LC₅₀-værdi fundet - men der er 100% dødelighed ved 143 mg/kg (<48h))

Ikke miljøbelastende stoffer:

- Propylparaben
- Phenoxyethanol
- Benzosyre
- Natriumbenzoat
- Benzylalkohol

Mindre miljøbelastende stoffer:

- Ethylparaben
- Isobutylparaben
- Isopropylparaben
- Methylparaben (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- Cetrimoniumbromid (akvatisk toksicitet er dog ikke fundet)
- Methylchlorisothiazolinon
- Methylisothiazolinon
- Natriumbisulfite (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- Sorbinsyre (akvatisk toksicitet er dog ikke fundet)
- DMDM Hydantoin (1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidin- 2,4-dion), (data om nedbrydelighed og evne til bioakkumulering er dog ikke fundet)

Potentielt miljøbelastende stoffer:

- Butylparaben
- Ammoniumbenzoat (data om nedbrydelighed og evne til bioakkumulering er dog ikke fundet)

- Methyldibromglutaronitril (data om nedbrydelighed og evne til bioakkumulering er dog ikke fundet)

Potentielt meget miljøbelastende stoffer:

- Cetrimoniumchlorid (meget toksisk, bioakkumulerende)
- Tallowtrimoniumchlorid (meget toksisk, data om nedbrydelighed og evne til bioakkumulering er dog ikke fundet)
- 2-Brom-2-nitropropan-1,3-diol (N, R50/53 ifølge listen over farlige stoffer)
- Behentrimoniumchlorid (meget toksisk og/eller bioakkumulerbar, ikke let nedbrydeligt)
- Benzalkoniumchlorid (meget toksisk, ikke let nedbrydeligt og potentielt bioakkumulerbar)
- Diazolidinyl urinstof (meget toksisk, ikke let nedbrydeligt og potentielt bioakkumulerbar)
- Imidazolidinyl urinstof (meget toksisk, ikke let nedbrydeligt og potentielt bioakkumulerbar)
- Iodopropynylbutylcarbammat (meget toksisk, data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

Et af de vurderede stoffer 2-Brom-2-nitropropan-1,3-diol er klassificeret som miljøfarligt på grund af, at det er meget toksisk over for akvatiske organismer og kan forårsage uønskede langtidsvirkninger i vandmiljøet. Chloriderne er alle meget toksiske over for akvatiske organismer, og tre ud af fire chlorider er ikke let nedbrydelige og potentielt bioakkumulerbare. Diazolidinyl urinstof og imidazolidinyl urinstof er begge fundet meget toksiske over for akvatiske organismer, ikke let nedbrydelige og potentielt bioakkumulerbare. Stofferne er derfor grupperet som potentielt meget miljøbelastende.

For tallowtrimoniumchlorid og iodopropynylbutylcarbammat gælder, at der ikke er fundet nogle oplysninger om dets nedbrydelighed eller evne til bioakkumulering, men det er meget toksisk, hvorfor det er vurderet ved "worst case", dvs. som potentielt meget miljøbelastende.

6.3.8 Farvestoffer/pigmenter og matteringsmidler

Denne gruppe dækker over både farvestoffer/pigmenter og matteringsmidler. Farvestofferne/pigmenterne er dog kun gennemgået her, da matteringsmidlerne, der også har andre funktioner, er gennemgået andetsteds. Hovedparten af de anvendte farvestoffer/pigmenter er udvalgt til screeningen, se Tabel 6. **Fejl! Ukendt argument for parameter..**

Mange hårstylingprodukter indeholder farvestoffer/pigmenter for at give eksempelvis geleen en bestemt farve. Der er set farvestoffer/pigmenter i alle typer af hårstylingprodukter (også sprayprodukterne), dog med undtagelse af hårudglatningsmidler. Alle BASIC-farverne og HC-farverne, der er hårfarver, er fundet i geleprodukter.

Tabel 6. **Fejl! Ukendt argument for parameter..**: Farvestoffer og matteringsmidler udvalgt til screening

2-NITRO-P-PHENYLENE-DIAMINE	(i 2 produkter)
BASIC BLUE 9	(i 2 produkter)
BASIC BLUE 99	(i 2 produkter)
BASIC BROWN 16	(i 2 produkter)
BASIC BROWN 17	(i 2 produkter)
BASIC RED 2	(i 2 produkter)
BASIC RED 76	(i 2 produkter)
BASIC VIOLET 14	(i 2 produkter)
BASIC YELLOW 57	(i 2 produkter)
CI 15510	(i 1 produkt)
CI 15985	(i 2 produkter)
CI 16185	(i 3 produkter)

CI 17200	(i 4 produkter)
CI 18050	(i 5 produkter)
CI 19140	(i 14 produkter)
CI 42051	(i 1 produkt)
CI 42090	(i 20 produkter)
CI 42520	(i 1 produkt)
CI 42600	(i 1 produkt)
CI 42735	(i 4 produkter)
CI 47000	(i 4 produkter)
CI 47005	(i 4 produkter)
CI 60725	(i 4 produkter)
CI 60730	(i 2 produkter)
CI 61565	(i 5 produkter)
CI 61570	(i 2 produkter)
CI 69800	(i 1 produkt)
CI 77491	(i 2 produkter)
CI 77492	(i 1 produkt)
CI 77499	(i 1 produkt)
CI 77891	(i 5 produkter)
CI 77947	(i 1 produkt)
HC RED NO. 3	(i 2 produkter)
HC YELLOW NO.5	(i 2 produkter)
MICA	(i 16 produkter)
TITANIUM DIOXIDE	(i 9 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	
CALCIUM CARBONATE	Gennemgået i afsnit 6.3.9 pH-regulator
CETYL ALCOHOL	6.3.2 Blødgøringsm.
MAGNESIUM ALUMINIUM SILICATE	6.3.16
STEARYL ALCOHOL	Absorberingsm 6.3.2 Blødgøringsm.

6.3.8.1 Sundhedsscreening

Farvestoffer/pigmenterne er alle faste stoffer ved stuetemperatur. Pigmenter er uopløselige, hvorimod farvestoffer er opløselige i vand eller organiske opløsningsmidler. Der er generelt fundet meget få oplysninger om deres fysisk-kemiske egenskaber, og tilsvarende er der kun fundet nogle få oplysninger om farvestoffernes/pigmenternes sundhedsmæssige egenskaber for ca. halvdelen af de udvalgte farvestoffer/pigmenter.

Et enkelt farvestof/pigment (CI 69800) kan på baggrund af dets LD₅₀-værdi vurderes ikke at være sundhedsskadeligt. Et farvestof/pigment (Basic Red 2) kan give øjenskader ved kontakt med øjnene. Yderligere kan pigmenterne Mica (CI 77019) og titandioxid (CI 77891) irritere åndedrætsorganerne i pulverform. Dette er dog ikke relevant for hårstylingsprodukter, da pigmenterne vil forekomme i suspenderet form.

Nogle af farvestofferne/pigmenterne vurderes at have allergifremkaldende egenskaber. Det drejer sig om farvestofferne/pigmenterne CI 16185, CI 18050, CI 60725, CI 77947, Basic Violet 14, HC Red no.3 og HC Yellow no.5. Farvestoffet/pigmentet CI 61570 har hudirriterende egenskaber.

Farvestofferne/pigmenterne Basic Blue 9 og Basic Blue 14 har udvist mutagene egenskaber i bakteriesystemer. Hårfarven 2-Nitro-*p*-phenyldiamin skal klassificeres som muligt kræftfremkaldende (EU, Carc3), og farven har vist både mutagene og reprotoxiske effekter i dyreforsøg.

De resterende farvestoffer/pigmenter (CI 15985, CI 16185, CI 42090, CI 42520, CI 77491, CI 77891/titandioxid, HC Red No.3), som der er fundet sundhedsoplysninger på, er alle udvalgt og vurderet af IARC og grupperet som værende kræftfremkaldende gruppe 3, dvs. at stofferne ikke kan klassificeres med

hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige.

For gruppen af farvestoffer/pigmenter og matteringsmidler har det været muligt at give ca. halvdelen af stofferne en score. Scorerne fordeler sig på scorerne 0 (ikke sundhedsskadelige), 1 (irriterende), 4 (allergifremkaldende) og 8 (har udvist mutagene og kræftfremkaldende effekter i dyreforsøg).

6.3.8.2 Miljøscreening

Der er generelt fundet meget få oplysninger om farvestoffernes/pigmenternes miljøegenskaber.

Stoffer, der ikke kan vurderes:

- CI 17200
- CI 18050
- CI 42051
- CI 42090
- CI 42520
- CI 42600
- CI 42735
- CI 47005
- CI 60730
- CI 61565
- CI 77491
- CI 77492
- CI 77499
- Basic Blue 9
- Basic Blue 99
- Basic Brown 16
- Basic Brown 17
- Basic Red 76
- Basic Yellow 57
- HC Red no. 3
- HC Yellow no.5
- Mica

Ikke miljøbelastende stoffer:

- CI 15510
- CI 16185

Mindre miljøbelastende stoffer:

- CI 15985
- CI 77891 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- Titandioxid (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- CI 77947 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

Potentielt miljøbelastende stoffer:

- CI 19140 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- CI 60725
- CI 61570 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- CI 69800 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- 2-Nitro-*p*-phenylen-diamin

- Basic Red 2 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)
- Basic Violet 14 (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

Potentielt meget miljøbelastende stoffer:

- CI 47000 (meget toksisk, data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

CI 47000 er fundet at være meget toksisk over for akvatiske organismer, men der er ikke fundet data om nedbrydelighed og evne til bioakkumulering. Ved brug af ”worst case” vurderes stoffet at være potentielt meget miljøbelastende.

6.3.9 pH-regulatorer

pH-regulatorer tilsættes hårstylingsprodukterne for at regulere produktets endelige pH-værdi. Den optimale pH-værdi for et hårstylingsprodukt (set fra brugerens synspunkt) er en pH-værdi så tæt som muligt på hudens pH-værdi for at få minimale irriterende egenskaber af produktet. pH-regulatorer forekommer nødvendigvis ikke i alle hårstylingsprodukter, men de er set i alle typer af hårstylingsprodukter.

Tabel 6. **Fejl! Ukendt argument for parameter.:** pH-regulatorer udvalgt til screening

2-AMINOBUTANOL	(i 3 produkter)
AMINOMETHYL-PROPANOL	(i 107 produkter)
CALCIUM CARBONATE	(i 1 produkt)
CALCIUM HYDROXIDE	(i 1 produkt)
CITRIC ACID	(i 14 produkter)
GLYOXYLIC ACID	(i 2 produkter)
SODIUM HYDROXIDE	(i 11 produkter)
TRIETHANOLAMINE	(i 60 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
ASCORBIC ACID	6.3.13 Vitamin

6.3.9.1 Sundhedsscreening

Der er fundet oplysninger for alle de udvalgte pH-regulatorer, og fysisk-kemiske parametre for hovedparten af stofferne. Hovedparten af de nævnte stoffer er faste stoffer ved stuetemperatur.

De mest hyppigt forekommende pH-regulatorer, aminomethylpropanol og triethanolamin, er irriterende for både hud og øjne. Calciumcarbonat (kalk) er irriterende for øjnene, og calciumhydroxid og ”citric acid” (citronsyre) er hudirriterende.

Glyoxylsyre og natrium hydroxid er ætsende i ren form, men vil højst sandsynligt forekomme i små koncentrationer i hårstylingsprodukter. De er formentlig neutraliseret, men ellers vil de blot have mildt irriterende egenskaber i den koncentration, de forekommer i.

Der er set allergiske reaktioner fremkaldt af 2-Aminobutanol, citronsyre og triethanolamin. For triethanolamin er der rapporteret tilfælde af kontaktallergi.

Triethanolamin er desuden grupperet af IARC som værende kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige.

For gruppen af pH-regulatorer har det været muligt at give alle stofferne en score. Scorerne fordeler sig på scorerne 1 (irriterende) og 4 (ætsende og allergifremkaldende).

6.3.9.2 Miljøscreening

Der er fundet oplysninger for hovedparten af de udvalgte pH-regulatorer.

Stoffer, der ikke kan vurderes:

- Glyoxylsyre

Ikke miljøbelastende stoffer:

- Calciumcarbonat (kalk)
- Aminomethylpropanol
- Natrium hydroxid
- Calciumhydroxid
- Triethanolamin
- Citronsyre

Potentielt miljøbelastende stoffer:

- 2-Aminobutanol (data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

6.3.10 Antistatiske midler

Antistatiske midler tilsættes hårstyling produkter for at reducere den statiske elektricitet i håret.

Der er kun fundet sundhedsoplysninger for to af de 5 udvalgte antistatiske midler, men generelt ingen oplysninger om fysisk-kemiske egenskaber.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Antistatiske midler udvalgt til screening

AMODIMETHICONE	(i 16 produkter)
CALCIUM PANTOTHENATE	(i 3 produkter)
DISTEARYLDIMONIUM CHLORIDE	(i 1 produkt)
PANTHENOL	(i 122 produkter)
PANTHENYL ETHYL ETHER	(i 12 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
ACRYLATES COPOLYMER	6.3.1 Filmdanner
CYCLOMETHICONE	6.3.2 Blødgøringsm.
DIMETHICONE COPOLYOL	6.3.2 Blødgøringsm.
OCTYLACRYLAMIDE / ACRYLATES BUTYLAMINOETHYL METHACRYLATE COPOLYMER	6.3.1 Filmdanner
PARAFFINUM LIQUIDUM	6.3.2 Blødgøringsm.
PETROLATUM	6.3.2 Blødgøringsm.
PHENYLTRIMETHICONE	6.3.2 Blødgøringsm.
POLYQUATERNIUM-11	6.3.1 Filmdanner
POLYQUATERNIUM-16	6.3.1 Filmdanner
POLYQUATERNIUM-4	6.3.1 Filmdanner
PVP	6.3.1 Filmdanner
PVP / VA COPOLYMER	6.3.1 Filmdanner
TALLOWTRIMONIUM CHLORIDE	6.3.7 Konservering

6.3.10.1 Sundhedsscreening

Distearyldimoniumchlorid har potentielle hud- og øjenirriterende egenskaber.

Panthenol er hudirriterende og udviser milde øjenirriterende egenskaber. Der er set eksempler på kontaktallergi fremkaldt af panthenol.

PVP er af IARC grupperet som kræftfremkaldende gruppe 3, dvs. at det ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data der foreligger er utilstrækkelige .

For gruppen af antistatiske midler har det kun været muligt at give to af stofferne en score. Scorerne fordeler sig på scorerne 1 (irriterende) og 4 (allergifremkaldende).

6.3.10.2 Miljøscreening

Stoffer, der ikke kan vurderes:

- Panthenylethylether

Ikke miljøbelastende stoffer:

- Panthenol

Mindre miljøbelastende stoffer:

- Calciumpantothenat

Potentielt miljøbelastende stoffer:

- Amodimethicon

Potentielt meget miljøbelastende stoffer:

- Distearyltrimoniumchlorid (meget toksisk, ikke let nedbrydelig, moderat potentiale for bioakkumulering)

Distearyltrimoniumchlorid er fundet meget toksisk over for akvatiske organismer samt ikke let nedbrydelig og potentielt bioakkumulerbar, hvorfor det grupperes som potentielt meget miljøbelastende.

6.3.11 Skumdæmpere

Skumdæmpere tilsættes hårstylingsprodukter for at undgå, at produkterne skummer ved brug, eksempelvis når de smøres ud i håndfladerne, inden de tilføres håret.

De skumdæmpere, der er udvalgt til screeningen, har også andre funktioner end den skumdæpende funktion og er gennemgået under disse funktioner (blødgøringsmidler og opløsningsmidler).

Tabel 6. **Fejl! Ukendt argument for parameter.:** Skumdæmpere udvalgt til screening

Stoffer med samme funktion men gennemgået andetsteds	Gennemgået i afsnit
DIMETHICONE	6.3.2 Blødgøringsm.
DIMETHICONOL	6.3.2 Blødgøringsm.
ISOPROPYL ALCOHOL	6.3.3 Opløsningsm.
PHENYLTRIMETHICONE	6.3.2 Blødgøringsm.

6.3.12 Oxidationsmidler

Der er kun set et enkelt stof i de undersøgte hårstylingsprodukter, der har angivet ”oxidationsmiddel” som funktion. Dette stof er udvalgt til screeningen. Hydrogenperoxid forekommer kun i et af de undersøgte produkter, der er en gelespray.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Oxidationsmidler udvalgt til screening

HYDROGEN PEROXIDE	(i 1 produkt)
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6.3.12.1 Sundhedsscreening

Hydrogenperoxid er en væske ved stuetemperatur og er i ren form ætsende. Hydrogenperoxid skal i koncentrationer på over 20% klassificeres som ætsende, og i koncentrationer mellem 5 og 20% klassificeres som lokalirriterende, med hud- og øjenirriterende egenskaber. I de koncentrationer, det findes i hårstylingsprodukter, vil det formentlig blot udvise irriterende egenskaber eller slet ingen irritation.

Hydrogenperoxid er af IARC grupperet som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige. Der er set mutagene effekter for stoffet ved eksperimentelle dyreforsøg.

For gruppen af oxidationsmidler har det været muligt at give det udvalgte stof en score på 8 (har udvist mutagene egenskaber i dyreforsøg).

6.3.12.2 Miljøscreening

Potentielt miljøbelastende stoffer:

- Hydrogenperoxid (skadeligt for vandlevende organismer, men data om nedbrydelighed og evne til bioakkumulering er ikke fundet)

6.3.13 Vitaminer/antioxidanter

Denne gruppe omhandler antioxidanter, hvoraf nogle er vitaminer. Følgende antioxidanter er udvalgt til screeningen:

Tabel 6. **Fejl! Ukendt argument for parameter.:** Vitaminer/antioxidanter udvalgt til screening

<u>VITAMINER</u>	
ASCORBIC ACID (C VITAMIN)	(i 1 produkt)
NIACINAMID (B VITAMIN)	(i 27 produkter)
THIAMINE HCl (B VITAMIN)	(i 3 produkter)
TOCOPHEROL (E VITAMIN)	(i 16 produkter)
TOCOPHERYL ACETATE (E VITAMIN)	(i 10 produkter)
<u>ANTIOXIDANTER</u>	
BHA	(i 2 produkter)
BHT	(i 5 produkter)
TRIETHYL CITRATE	(i 11 produkter)

6.3.13.1 Sundhedsscreening

Der er ikke fundet oplysninger for alle de udvalgte stoffer. Stofferne er faste stoffer eller væsker ved stuetemperatur.

Som vitaminer har stofferne positive sundhedsmæssige egenskaber. Således opnår niacinamid og tocopherol laveste sundhedsscore i screeningen, da de ikke har nogle negative sundhedseffekter. For ascorbinsyre og triethylcitrat gælder dog, at de begge udviser øjen- og hudirriterende egenskaber, og at der er observeret få tilfælde af allergi fremkaldt af disse stoffer.

For antioxidantet BHA (*tert*-butyl-4-methoxyphenol) er der ligeledes observeret udvikling af kontaktallergi, og BHA er desuden grupperet som kræftfremkaldende (IARC gruppe 2B), dvs. at stoffet muligvis er kræftfremkaldende. BHT (2,6-di-*tert*-butyl-*p*-cresol) er af IARC grupperet som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data der foreligger er utilstrækkelige. Dog er både BHA og BHT også anticarcinogener.

For gruppen af vitaminer/antioxidanter har det været muligt at give hovedparten af stofferne en score. Scorerne fordeler sig på scorerne 0 (ikke sundhedsskadelige), 1 (irriterende) og 8 (eventuelt kræftfremkaldende).

6.3.13.2 Miljøscreening

Der er ikke fundet oplysninger for alle de udvalgte stoffer.

Stoffer, der ikke kan vurderes:

- Tocopherol
- Tocopherylacetat
- Thiamin, HCl
- Triethylcitrat

Ikke miljøbelastende stoffer:

- Ascorbinsyre

Mindre miljøbelastende stoffer:

- Niacinamid (ingen LC₅₀-værdi fundet - men en LOEC > 20 mg/l (24h))

Potentielt miljøbelastende stoffer:

- BHA

Potentielt meget miljøbelastende stoffer:

- BHT (N, R50/53)

BHT (2,6-di-*tert*-butyl-*p*-cresol) er vurderet at være potentielt meget miljøbelastende, idet den foreslåede klassificering er N (miljøfarlig), R50/53 (Miljøstyrelsens selvklassificering). De fundne oplysninger indikerer, at BHT er toksisk over for akvatiske organismer.

6.3.14 Fugtbevarende midler

Fugtbevarende midler tilsættes hårstylingsprodukter med det formål, at absorbere fugt fra luften og holde håret fugtigt. Der er set fugtbevarende midler i alle typer af hårstylingsprodukter.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Fugtbevarende midler udvalgt til screening

GLYCERIN	(i 48 produkter)
SORBITOL	(i 14 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
BUTYLENE GLYCOL	6.3.3 Opløsningsm.
CYCLOMETHICONE	6.3.2 Blødgøringsm.
ETHOXYDIGLYCOL	6.3.3 Opløsningsm.
PROPYLENE GLYCOL	6.3.3 Opløsningsm.

6.3.14.1 Sundhedsscreening

Glycerol (INCI-navnet er glycerin) er flydende ved stuetemperatur, hvorimod sorbitol er et fast stof. Der er fundet begrænsede oplysninger om sundhedseffekterne af sorbitol, men de fundne værdier indikerer, at sorbitol ikke er sundhedsskadeligt (høj LD₅₀-værdi). Glycerol har tilsvarende en meget lav akut toksicitet, men er i sin rene form stærkt irriterende for hud og øjne. Som ingrediens i hårstylingsprodukter vil glycerol formentlig være mindre irriterende for hud og øjne eller slet ikke irriterende.

For gruppen af fugtbevarende midler har det været muligt at give alle stofferne en score. Scorene fordeler sig på scorene 0 (ikke sundhedsskadelige) og 1 (irriterende).

6.3.14.2 Miljøscreening

Ikke miljøbelastende stoffer:

- Glycerol

Mindre miljøbelastende stoffer:

- Sorbitol (oplysninger om akvatisk toksicitet er ikke fundet)

6.3.15 Kompleksdannere/kalkfjernere

Kompleksdannere/kalkfjernere har til formål at binde kalken i vandet i forbindelse med hårvask eller vask af hænder, hvori hårstylingsproduktet er smurt ud i.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Kompleksdannere/kalkfjernere udvalgt til screening

DISODIUM EDTA	(i 26 produkter)
EDTA	(i 1 produkt)
PENTASODIUM PENTE-TATE	(i 7 produkter)
TETRASODIUM EDTA	(i 22 produkter)
TETRAHYDROXYPROPYL - ETHYLENEDIAMINE	(i 4 produkter)
<u>Stoffer med samme funktion men gennemgået andetsteds</u>	<u>Gennemgået i afsnit</u>
CITRIC ACID	6.3.9 pH-regulator

6.3.15.1 Sundhedsscreening

EDTA-forbindelserne er alle faste stoffer ved stuetemperatur. Der er fundet begrænsede oplysninger om de resterende kompleksdannere/kalkfjernere, men disse er formentlig også faste stoffer ved stuetemperatur.

EDTA-forbindelserne er irriterende stoffer. Tetranatrium EDTA er angivet som irriterende for øjne og EDTA som irriterende for både hud og øjne. Pentanatriumpentetat og tetrahydroxypropylethyldiamin kan derimod begge fremkalde allergi.

For gruppen af kompleksdannere/kalkfjernere har det været muligt at give hovedparten af stofferne en score. Scorerne fordeler sig på scorerne 1 (irriterende) og 4 (allergifremkaldende).

6.3.15.2 Miljøscreening

Stoffer, der ikke kan vurderes:

- Tetrahydroxypropylethyldiamin

Ikke miljøbelastende stoffer:

- Tetranatrium EDTA
- Pentanatriumpentetat

Mindre miljøbelastende stoffer:

- EDTA

Potentielt miljøbelastende stoffer:

- Dinatrium EDTA

6.3.16 Absorberingsmidler

Absorberingsmidler har til formål at absorbere overskydende fugtighed.

Tabel 6. **Fejl! Ukendt argument for parameter.:** Absorberingsmidler udvalgt til screening

MAGNESIUM ALUMINIUM SILICATE	(i 2 produkter)
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Der er ikke fundet hverken miljø- eller sundhedsmæssige oplysninger om Magnesiumaluminiumsilicat. Magnesiumaluminiumsilicat er et blandingsmineral bestående af magnesiumoxid, aluminiumoxid og siliciumoxid.

6.3.17 UV-filtre

UV-filtre tilsættes hårstylingsprodukterne enten for at beskytte håret, som hårstylingsproduktet tilføres, mod UV-stråling eller for at beskytte produktet selv mod nedbrydning af UV-stråling, eksempelvis for at opnå en længere holdbarhed. Der er set UV-filtre i alle typer af hårstylingsprodukter, men det er ikke alle produkter, der indeholder UV-filtre.

Tabel 6. **Fejl! Ukendt argument for parameter.:** UV-filtre udvalgt til screening

BENZOPHENONE-3	(i 11 produkter)
BENZOPHENONE-4	(i 46 produkter)
BUTYL METHOXYDIBENZOYLMETHANE	(i 1 produkt)
OCTYL SALICYLATE	(i 3 produkter)
OCTYL METHOXYCINNAMATE	(i 17 produkter)
PABA	(i 2 produkter)
PEG-25 PABA	(i 7 produkter)

6.3.17.1 Sundhedsscreening

Der er generelt fundet få oplysninger om UV-filtrene, men de er enten faste eller flydende stoffer ved stuetemperatur.

Octylsalicylat vurderes af Miljøstyrelsen (Miljøstyrelsens selvklassificering) at være farlig ved indtagelse, men der er ikke fundet nogle oplysninger om stoffet i de anvendte toksikologiske databaser.

For benzophenone-3 findes der eksempler på kontaktallergi fremkommet ved brug af solcreme indeholdende dette UV-filter. Ifølge Miljøstyrelsens vejledende liste til selvklassificering af farlige stoffer er benzophenone-3 ligeledes vurderet som allergifremkaldende.

PABA (4-aminobenzosyre) er af IARC grupperet som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber.

For gruppen af UV-filtre har det været muligt at give ca. halvdelen af stofferne en score. Scorerne fordeler sig på scorerne 1 (irriterende) og 4 (allergifremkaldende).

6.3.17.2 Miljøscreening

Stoffer, der ikke kan vurderes:

- PEG-25 PABA

Ikke miljøbelastende stoffer:

- PABA

Potentielt meget miljøbelastende stoffer:

- Benzophenone-3 (meget giftig, ikke let nedbrydelig, bioakkumulerende)
- Benzophenone-4 (meget giftig, ikke let nedbrydelig, potentielt bioakkumulerende)
- Butylmethoxydibenzoylmethan (meget giftig, ikke let nedbrydelig, potentielt bioakkumulerende)
- Octylsalicylat (N, R50/53)
- Octylmethoxycinnamat (N, R50/53)

Octylsalicylat og octylmethoxycinnamat er foreslået klassificeret som miljøfarlige (Miljøstyrelsens selvklassificering), idet stofferne er meget toksiske over for

akvatiske organismer, og de kan forårsage uønskede langtidsvirkninger i vandmiljøet. Benzophenone-3 og -4 samt butylmethoxydibenzoylmethan er alle fundet at være meget giftige over for vandlevende organismer samt ikke let nedbrydelige og potentielt bioakkumulerende. Stofferne er derfor grupperet som potentielt meget miljøbelastende.

6.3.18 Andre (additiver, biologiske additiver og botaniske midler)

Til denne gruppe hører stoffer, der er markeret som additiver, biologiske additiver og botaniske midler på INCI-listen. Desuden dækker denne gruppe over kemiske stoffer, som ikke stod på den anvendte INCI-liste (af 28.6.2001) i forvejen, dvs. at funktionen for stoffet ikke er kendt og ikke har kunnet findes (gælder specielt for cyclohexylamin).

Tabel 6. **Fejl! Ukendt argument for parameter.:** Andre stoffer udvalgt til screening

CITRUS LIMONUM	(i 13 produkter)
CYCLOHEXYLAMINE	(i 3 produkter)
MAGNESIUM NITRATE	(i 2 produkter)
MAGNESIUM CHLORIDE	(i 2 produkter)
METHYLDIHYDROJASMONATE	(i 7 produkter)

6.3.18.1 Sundhedsscreening

Der er ikke fundet oplysninger om sundhedseffekterne for alle de nævnte stoffer.

For magnesiumforbindelserne gælder, at de i pulverform kan være irriterende for øjnene. Dette er imidlertid ikke relevant, da stofferne i hårstylingsprodukter vil forekomme i opløst form.

Cyclohexylamin skal klassificeres som ætsende og sundhedsskadeligt. Stoffet er farlig ved indtagelse og ved hudkontakt. Stoffet kan muligvis fremkalde allergi. Derudover er cyclohexylamin af IARC grupperet som kræftfremkaldende gruppe 3, dvs. at stoffet ikke kan klassificeres med hensyn til dets kræftfremkaldende egenskaber, da de data, der foreligger, er utilstrækkelige.

For gruppen af andre stoffer har det været muligt at give ca. halvdelen af stofferne en score. Scorerne fordeler sig på scorerne 1 (irriterende) og 4 (eventuelt allergifremkaldende).

6.3.18.2 Miljøscreening

Stoffer, der ikke kan vurderes:

- Citrus limonum

Ikke miljøbelastende stoffer:

- Magnesiumnitrat
- Magnesiumchlorid
- Cyclohexylamin

Potentielt meget miljøbelastende stoffer:

- Methyldihydrojasmonat (N, R50) (oplysninger om data om nedbrydelighed og evne til bioakkumulering er dog ikke fundet)

Methyldihydrojasmonat er vurderet at være potentielt meget miljøbelastende, idet den foreslåede klassificering (Miljøstyrelsens selvklassificering) er N (miljøfarlig), R50. Der er ikke fundet andre oplysninger om stoffets bioakkumulerbarhed, bionedbrydelighed eller akvatiske toksicitet. I dette tilfælde anvendes således "worst case" betragtninger, når stoffer placeres i denne gruppe.

6.4 Vurdering af kemiske stoffer i hårstylingsprodukter

Der er i alt fundet 585 kemiske stoffer i de 328 undersøgte hårstylingsprodukter. Af disse er der foretaget en miljø- og sundhedsscreening for ca. 160 kemiske stoffer. Stofferne er udvalgt til screeningen på baggrund af en formodning om enten miljø- og/eller sundhedsskadelige effekter, eller fordi det er de mest hyppige ingredienser i de undersøgte hårstylingsprodukter.

Det gælder generelt for screeningen, at vurderingen af de kemiske stoffer udelukkende er foretaget på baggrund af oplysninger om miljø- og sundhedsmæssige forhold, der har været tilgængelige i de udvalgte databaser. Der kan således være miljø- og sundhedsmæssige oplysninger, der ikke er taget højde for. Herudover kan screeningen ikke tage forbehold for eventuelle synergi- eller antagoniske effekter af indholdsstofferne i hårstylingsprodukterne, dvs. at stoffer i kombination udviser henholdsvis kraftigere eller svagere effekt, end hvis de forekom alene.

6.4.1 Sundhedsvurdering

Generelt er de fundne sundhedsmæssige oplysninger et udtryk for stoffernes sundhedsmæssige egenskaber i ren form. Stofferne vil således forekomme i væsentligt lavere koncentrationer i hårstylingsprodukterne end den koncentration, der er anvendt for stoffet i de toksikologiske forsøg. Desuden er mange stoffer undersøgt for administrationsveje, der ikke er relevante for hårstylingsprodukter (bl.a. oral indtagelse), dvs. der udover at være få oplysninger til brug for sundhedsscreeningen, således også er få relevante oplysninger. En mere detaljeret litteraturundersøgelse og vurdering af de enkelte indholdsstoffer vil kunne tage højde for dette.

Ingredienserne kan således i screeningen komme til at fremstå mere problematiske, end de i virkeligheden er som ingrediens i hårstylingsprodukterne.

Af de stoffer, der er foretaget en sundhedsscreening for, er der 59 stoffer, hvor det i de udvalgte databaser (se afsnit 6.2) ikke har været muligt at finde nogle oplysninger om deres sundhedsmæssige effekter. 11 stoffer er vurderet som værende ikke sundhedsskadelige baseret på de fundne oplysninger, og 40 stoffer er i deres rene form irriterende for hud og/eller øjne. Af de undersøgte stoffer har 28 stoffer vist sig at være allergifremkaldende, 3 ætsende stoffer, og 1 stof giftigt, og i alt 15 stoffer har udvist kræftfremkaldende, reproduktionsskadende eller mutagene egenskaber i dyreforsøg.

En stor del af de undersøgte stoffer udviser i deres rene form hud- eller øjenirriterende effekter, hvor hovedparten er hudirriterende stoffer. Mange af disse stoffer indgår kun i en begrænset mængde i hårstylingsprodukterne og vil således formentlig kun fremkalde meget milde eller slet ingen irriterende reaktioner ved brug. For særligt følsomme personer må der dog forventes at kunne forekomme irriterende reaktioner. Hovedparten af opløsningsmidlerne er hudirriterende stoffer, og da disse udgør en væsentlig bestanddel af hårstylingsprodukterne, vil de således kunne give irriterende reaktioner.

Der er enkelte af de undersøgte stoffer, som er ætsende i deres rene form. Disse stoffer er enten overfladeaktive stoffer eller pH-regulerende stoffer og indgår derfor i mindre mængder i hårstylingsprodukterne. Disse stoffer vil derfor tilsvarende formentlig kun fremkalde meget milde eller slet ingen irriterende reaktioner ved brug.

Af de udvalgte stoffer har 28 stoffer allergifremkaldende egenskaber. Det er primært konserveringsmidler, farvestoffer/pigmenter, pH-regulatorer og kompleksdannere, der udviser allergiske egenskaber.

Af de udvalgte stoffer har i alt 15 stoffer udvist kræftfremkaldende, reproduktionsskadende eller mutagene egenskaber i dyreforsøg. For hovedparten af disse stoffer forekommer der ikke nogen EU-klassificering eller vurdering af IARC. Det er uklart, om de dyreforsøg, der er fundet oplysninger om, vil give anledning til en klassificering som muligt kræftfremkaldende, reproduktionsskadende eller mutagent, hvis der forelå en IARC-vurdering. Der er således tale om en ”worst case”-vurdering for hovedparten af disse stoffer. En enkelt ingrediens, alkohol (denatureret alkohol), er dog kræftfremkaldende ved oral indtagelse (EU Carc1), hvilket dog ikke er relevant for normal brug af hårstylingsprodukter. To stoffer (isobutan og petrolatum) klassificeres som muligvis kræftfremkaldende for mennesket (EU Carc2), dvs. at det muligvis kan fremkalde kræft hos mennesker. For petrolatum findes flere CAS-numre, hvor det kun i den ene form er muligt kræftfremkaldende. For isobutan gælder klassificeringen kun, hvis det indeholder mere end 0,1% butadien. Isobutan anvendes som drivmiddel i hårspray og skum. I skum er risikoen for indånding af stoffet væsentlig mindre end for brug af hårspray, der sprøjtes tæt på indåndingszonen. Isobutan anvendes i 62 af de undersøgte hårstylingsprodukter og er således et rimeligt udbredt stof. For begge stoffer gælder, at de ikke bør anvendes i den form, der muligvis er kræftfremkaldende.

Ved normal brug vil den største udsættelse for stofferne forekomme ved brug af produkter som hårspray og gelespray. Her er der risiko for, at andre områder end håret eksponeres, eksempelvis ansigt (hud og via indånding), arme, hænder og hovedbund. For de mere tyktflydende eller faste produkter som skum, gele, voks og creme, der oftest smøres ud i hånden, inden de masseres ind i håret, sker eksponeringen via håndfladerne, der dog vaskes ret hurtigt efter. Hovedbunden vil formentlig være det område, der er mest udsat, da hårstylingsprodukterne ved brug kan komme i kontakt med hovedbunden og endda for en længere periode ad gangen.

6.4.2 Miljøvurdering

På miljøsidens er det udelukkende stoffernes toksicitet over for vandlevende organismer og deres mulige skæbne i vandmiljøet i form af evne til bioakkumulering samt nedbrydelighed, der er vurderet. Det er ikke muligt at udtale sig om eksponeringen af stofferne i miljøet, da eksponeringsvejen er lang og formentlig ikke klar.

Af de stoffer, der er foretaget en miljøscreening for, er der 51 stoffer, hvor det i de udvalgte databaser (se afsnit 6.2) ikke har været muligt at finde nogle oplysninger om deres miljømæssige effekter. 38 stoffer vurderes som værende ikke miljøbelastende, da de er let nedbrydelige og ikke er giftige eller er mindre giftige over for vandlevende organismer. I alt 22 stoffer vurderes at være mindre miljøbelastende, da de enten er let nedbrydelige, men giftige over for vandlevende organismer eller er svært nedbrydelige og bioakkumulerbare, men til gengæld ikke giftige over for vandlevende organismer.

Af de screenede stoffer vurderes 27 at være miljøbelastende, da de ikke er let nedbrydelige, er bioakkumulerbare og samtidigt er giftige over for vandlevende organismer. Det er primært blødgøringsmidler, overfladeaktive stoffer og farvestoffer/pigmenter, der er belastende for miljøet. Herudover vurderes 26 af de udvalgte stoffer at være potentielt meget miljøbelastende, da de ikke er let

nedbrydelige, er bioakkumulerbare og er meget giftige over for vandlevende organismer. Det er primært konserveringsmidler, blødgøringsmidler og UV-filtre, der er meget belastende for miljøet.

Stofferne i hårstylingsmidlerne kommer i kontakt med vandmiljøet, når håret vaskes efter brug af hårstylingsmidlerne, og når hænderne, hvor hårstylingsproduktet smøres ud i, bliver vasket. Det er dog uklart hvor store mængder, der er tale om. En vis mængde af hårstylingsproduktet må formodes at fordampe (for spray) eller smitte af i tøj, sengetøj, hænder, børster m.m. inden hårvask.

Under alle omstændigheder bør potentielt miljøbelastende og potentielt meget miljøbelastende stoffer udskiftes med ikke eller mindre miljøbelastende stoffer. Screeningen viser, at der findes og bruges mindre miljøbelastende alternativer inden for alle grupper af stoffer. Brug af mindre miljøbelastende stoffer må dog ikke medføre øgede sundhedsrisiko i stedet og vice versa.

7 Det videre arbejde

Den udviklede database over de kortlagte hårstylingsprodukter og deres ingredienser er et godt værktøj til at indhente informationer om forskellige hårstylingsprodukter. Databasen giver desuden et godt grundlag for et videre arbejde omkring ingredienser i hårstylingsprodukter og giver rig mulighed for en supplerende eller opdatering af data.

Da miljø- og sundhedsscreeningen blot dækker et udvalg af samtlige fundne indholdsstoffer, vil det være oplagt at supplere databasen med miljø- og sundhedsoplysninger for de resterende kemiske stoffer. Databasens resultater kan desuden anvendes som udgangspunkt for valg af stoffer til en mere detaljeret miljø- og sundhedsvurdering af de kemiske stoffer i hårstylingsprodukter.

Som beskrevet er denne kortlægning af hårstylingsprodukterne i Danmark ikke komplet, da der formentlig findes op mod omkring 500 forskellige hårstylingsprodukter i Danmark. Det vil således være relevant at foretage en total kortlægning af hårstylingsprodukterne. Det er primært frisørprodukter, der mangler at blive kortlagt (i forhold til kortlægningen i dette projekt). Hovedparten af produkterne i detailhandlen indgår i denne kortlægning.

Skal den oprettede database være et rigtigt stærkt værktøj, kræver det dog, at den jævnligt opdateres. En sammenligning med Forbrugerinformationens kortlægning (udført i foråret 2001) viser, at der formentlig løbende sker en udskiftning af ingredienserne i hårstylingsprodukterne, da ikke alle de fundne kemiske stoffer er "genfundet" i denne kortlægning.

8 Referencer

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HSDB

Hazardous Substances Data Bank
<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>

IARC

IARC's database over kræftfremkaldende stoffer
http://193.51.164.11/cgi/iHound/Chem/iH_Chem_Frames.html

IRIS

Integrated Risk Information System

<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?IRIS>

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Importers/producers of hairstyling products for the Danish market

This enclosure is an overview of the importers/producers of hairstyling products who have been identified during the project. At the same time the table shows which product names the various importers/producers market as well as which of these products that are bought or procured in connection with the project. For some hairstyling series all the products are bought, but for a number of series only a few products are bought.

Importer/producer	Name of product series	Product is a part of mapping
Hair Mix	TIGI Haircare	Declaration of ingredients is received
	Taylor Mackay (TMK)	
Hairtech	Keune	Some products are bought
	KMS	Some products are bought
	Dax short and neat	
LR International	Hair Vital	Declaration of ingredients is received
	Hair Repair	Declaration of ingredients is received
	Color and Shine	Declaration of ingredients is received
	Thymus	Declaration of ingredients is received
Procter & Gamble	Pantene Pro-V	The products are bought
Forever Living Products Scandinavia	Forever Aloe	Declaration of ingredients is received
	Aloe Pro Set	Declaration of ingredients is received
Matas	Matas	The products are bought
	Matas Hair Style	The products are bought
Nordisk Parfumevarefabrik	Royal d'or	The products are sent
	Exclusiv	The products are sent
	Lanet	The products are sent
	Top (see also DS Indkøb)	The products are sent
Imperial International	IQ Haircare	
	HL	
	María Nila	
	Hayashi serien - System design	
a/s blumøller	Williams (kun et produkt)	
	Lockvoks (kun et produkt)	The product is bought
	Brylcrem (kun et produkt)	
Unicare Danmark	E Vitamin & Aloe Vera	
	Sheer Blonde	The products are bought
Cederroth	Swiss Formula	The products are bought
Unique Products	Unique Haircare	Some products are bought
Dansk Kosmetik Salg	DKS	Some products are bought
Dansk Supermarked Indkøb	Basic Line	The products are bought
	Top	The products are sent
Salgskompaniet	Shock Wawes	
Adaco	www.rufs.com	
FDB	Et godt køb	The products are bought
E. Sæther	Charles Worthington	The products are bought
Redken Laboratoires LLC	Redken 5 th Avenue NYC	Some products are bought
Allison	Allison	One product is bought

Importer/producer	Name of product series	Product is a part of mapping
The Body Shop Danmark	Gloss Over	The products are bought
	Hold Still	The products are bought
	No Hassle	The products are bought
	Think Big etc.	The products are bought
Lancôme	Lancôme (only one product)	The products are bought
Capilex	Elnett	Some products are bought
	El' Vital, strong	The products are bought
	Studio Line	The products are bought
Henkel Danmark	Poly Swing	The products are bought
	Palette Hairspray	
Netto I/S	Phc	Some products are bought
Hennes & Mauritz	Resq	The products are bought
	Divided	The products are bought
	L.O.G.G.	The products are bought
	Hair system	The products are bought
Aksel Lund		
Bioestetik	Diverse	
Cosmobell Danmark	XL	
Cutline	Green collection	
G&G Danmark	Paul Mitchell Sculpting	Some products are bought
	Paul Mitchell	Some products are bought
	Paul Mitchell Finish	Some products are bought
René Kordon	Slalom	
Wella Danmark	High Hair	Some products are bought
	Shock waves	Some products are bought
	Wellaflex	The products are bought
	SP	
	SP Texture	
	SP Just Men	
	Sebastian	
ID Frisør Design	ID Hair	One product is bought
Cha Cha Cha	Cha	The products are bought
Clinique Labs.	Clinique Hair Care	The products are bought
Crabtree & Evelyn	Crabtree & Evelyn	The products are bought
American Crew	d:fi	Some products are bought
Gaelle International	John Frieda Frizz Ease	One product is bought
	John Frieda Sheer blonde	The products are bought
Garnier	Fructis Style	The products are bought
Dagligvaregruppen Vejle	Gry	The products are bought
Frenchtop Cosmetics	Henna Plus	Some products are bought
Skovkrog Trading	IT Professional	One product is bought
Mordern Organic Products	MOP Glisten	Some products are bought
	MOP	Some products are bought
Oriflame International	Oriflame	The products are bought
Marinello Cosmetics	PHC Professional	Some products are bought
Yellow Submarine	Proffs	One product is bought
Stender Produktion	Stender	The products are bought
ES Products Copenhagen	Stuhr Hair Cosmetics	The products are bought
Corsair Toiletries	Super Silk Professional	The products are bought
Soft Sheen Products	Soft Sheen Sportin' Waves	The products are bought
Sabre Corporation	Fudge	One product is bought
Schwarzkopf Professional	Silhouette	Declaration of ingredients is received
	Osis	One product is bought
Bella Vista		
Sebastian Danmark		
Kai Petersen		
Cutrin/Coss		

Importer/producer	Name of product series	Product is a part of mapping
L'oreal Danmark	L'oreal Studio Line	The products are bought
	L'oreal Elnett	The products are bought
	L'oreal El'Vital	The products are bought
	L'oreal Kérastase	Some products are bought
	L'oreal Professional	Some products are bought
	L'oreal Special FX Studio	The products are bought
	L'oreal Studio Line	The products are bought
	L'oreal FX Studio	The products are bought
Waves Denmark		
Best Collection		
Goldwell		
Beauty for All	Beauty for All	
Hair Cosmetic		
Hair and Body Care		
Hair Service Keune		
Joico	I.C.E.	
Basler Haarkosmetik		
Biothetique		
C.H. satler		
Cutrin		
Cutline Frisørartikler		
Dare Corporation		
Frisørcenter Nord		
Hairmix		
Imperial Intercurl		
Midtjysk Frisørcenter		

List of purchased hairstyling products

This enclosure is a list of the product names of all the 328 mapped hairstyling products. The products are stated in alphabetical order. For each product the type of product is stated (hairspray, gel, wax, gel spray, cream, hair straightener or others).

At the same time the table shows the number of constituents in all the examined hairstyling products. The number of constituents varies from 3 to 34 different chemical substances. The examined hairstyling products contain on average nearly 13 constituents (12.8).

Furthermore, the producer/importer of the product is stated and if the product can be bought in retail shops, at saloons or per mail order.

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
Allison Styling Gel Strong	Gel	18	Retail product	Allison of Denmark
Aloe Pro Set Hårspray	Hairspray	14	Retail product	Forever Living Products Scandinavia AB, Göteborg
Aloe Styling Gel Hårgele	Gel	24	Retail product	Forever Living Products Scandinavia AB, Göteborg
Basic Line Hår Gele Strong	Gel	7	Retail product	Dansk Supermarked
Basic Line Hår Gele Super Strong	Gel	7	Retail product	Dansk Supermarked
Basic Line Hårvoks	Wax	10	Retail product	Dansk Supermarked
Blumøller Lock Vox	Wax	4	Retail product	Blumøller, Danmark
CHA Hair Finish	Other	12	Hairdressing product	Waves Denmark for Cha Cha Cha Copenhagen Hair Academy
CHA Hard Wax	Wax	4	Hairdressing product	Cha Cha Cha Copenhagen Hair Academy
CHA Style Mousse	Mousse	10	Hairdressing product	Waves Denmark for Cha Cha Cha Copenhagen Hair Academy
Charles Worthington Big Hair Lift-off Ultrafine Hairspray Firm Hold	Hairspray	11	Retail product	Charles Worthington Ltd., London
Charles Worthington Big Hair Styling Spray Firm Hold	Hairspray	20	Retail product	Charles Worthington Ltd., London
Charles Worthington Dream Hair Everlasting Flexi-fix Superfine Hairspray	Hairspray	34	Retail product	Charles Worthington Ltd., London
Charles Worthington Impact Neat Finish Hair Supercontroller	Wax	13	Retail product	Charles Worthington Ltd., London
Charles Worthington Impact Quick FixThicken and Style Spray	Hairspray	13	Retail product	Charles Worthington Ltd., London
Charles Worthington Lasting Impression Defining Vax Medium Hold	Wax	11	Retail product	Charles Worthington Ltd., London
Charles Worthington Results Body-Booster Silkening Mousse	Mousse	19	Retail product	Charles Worthington Ltd., London
Charles Worthington Results Extra Texture Hold and Shape Gel	Gel spray	17	Retail product	Charles Worthington Ltd., London
Charles Worthington Results Hair Makeover Blow-drying Spray	Hairspray	15	Retail product	Charles Worthington Ltd., London

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
Medium Hold				
Charles Worthington Results Lasting Impression Defining Wax Medium Hold	Wax	11	Retail product	Charles Worthington Ltd., London
Charles Worthington Results Stay in Shape Hair Superspray	Hairspray	9	Retail product	Charles Worthington Ltd., London
Charles Worthington Sheer Brilliance Finishing Wax Light Hold	Wax	12	Retail product	Charles Worthington Ltd., London
Clinique Hair Care Defined Curls	Gel	20	Retail product	Clinique Labs. London
Clinique Hair Care Extra Body	Hairspray	19	Retail product	Clinique Labs. London
Clinique Hair Care Light Control Gel	Gel	17	Retail product	for Clinique Laboratories
Clinique Hair Care Natural Hold Laque	Hairspray	16	Retail product	Clinique Labs., Dist. London
Clinique Hair Care Perfectly Straight Fine/Medium Hair	Hair straightener	21	Retail product	Clinique Labs., Dist. London
Clinique Hair Care Perfectly Straight Medium/Thick Hair	Hair straightener	23	Retail product	Clinique Labs. Dist., London
Clinique Hair Care Strong Control Gel	Gel	18	Retail product	Clinique Laboratories Dist. London
Crabtree & Evelyn Style Fixative All Hair Types	Hairspray	9	Retail product	Crabtree & Evelyn Ltd., London
Crabtree & Evelyn Volumizing Mousse All Hair Types	Mousse	18	Retail product	Crabtree & Evelyn Ltd., London
d.fi d:tails Pomade For Hold + Shine Hold Factor 6	Wax	24	Hairdressing product	American Crew, Inc., Denver, USA
d.fi Heavy Wax Firm Hold Hair Wax Hold Factor 9	Wax	19	Hairdressing product	American Crew, Inc., Denver, USA
d.fi hi:fi Firm Hold Gel Hold Factor 10	Gel	20	Hairdressing product	American Crew, Inc., Denver, USA
d.fi Straighten Smoothing Serum	Hair straightener	26	Hairdressing product	Distribueret af American Crew, Inc. Denver, USA
d.fi up Firm Hold Hairspray Hold Factor 7	Hairspray	13	Hairdressing product	Distribueret af American Crew, Inc., Denver. USA
Dax Short and Neat Hårvoks	Wax	5	Retail product	Imperial Dax Company USA Hairtech ApS, Hasselager
Dax Superneat Hair Creme	Wax	16	Retail product	Imperial Dax Company Inc., USA Hairtech Aps Hasselager
Dax Wave and Groom Hair Dress	Wax	4	Retail product	Imperial Dax Company USA TN Frisørartikler ApS
DKS - Ren & Klar Hårvoks Flydende Hårglans Styling	Wax	7	Retail product	Dansk Kosmetisk Salg A/S
DKS Frisure Gele Extra Hold	Gel	7	Retail product	Dansk Kosmetik Salg A/S
DKS Frisure Gele Normal Hold	Gel	6	Retail product	Dansk Kosmetik Salg A/S
DKS Hair Art Form Creme	Creme	11	Retail product	Dansk Kosmetik Salg A/S
DKS Hair Art Hair Wax	Wax	16	Retail product	Dansk Kosmetik Salg A/S
DKS Happy Hair Hair Spray Extra Hold	Hairspray	7	Retail product	Dansk Kosmetik Salg A/S
DKS Happy Hair Hairspray Extra Hold	Hairspray	8	Retail product	Dansk Kosmetik Salg A/S
DKS Impulsiv Gel Spray Fixing Styling Extra Hold	Gel spray	8	Retail product	Dansk Kosmetik Salg A/S
DKS Impulsiv Hair Gel Extra Hold	Gel	10	Retail product	Dansk Kosmetik Salg A/S
DKS Impulsiv Hair Gel Normal Hold	Gel	10	Retail product	Dansk Kosmetik Salg A/S
DKS Impulsiv Hair Mousse Extra Hold	Mousse	12	Retail product	Dansk Kosmetik Salg A/S

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
DKS Impulsiv Hair Spray Fixing Spray Extra Hold	Hairspray	11	Retail product	Dansk Kosmetik Salg A/S
DKS Impulsiv Hair Wax	Wax	4	Retail product	Dansk Kosmetik Salg A/S
Et Godt Køb Hårgelé Kraftig	Gel	7	Retail product	Nopa A/S, Randers, for FDB, Albertslund
Et Godt Køb Hårgelé Spray Kraftig	Gel spray	3	Retail product	Nopa A/S, Randers, for FDB, Albertslund
Et Godt Køb Hårmousse Ekstra Hold	Mousse	10	Retail product	Nopa A/S Randers for FDB, Albertslund
Et Godt Køb Hårspray Ekstra Hold	Hairspray	10	Retail product	Nopa A/S, Randers, for FDB, Albertslund
Exclusiv Form Creme	Creme	10	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Exclusiv Hair Gel Mega Strong	Gel	8	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Exclusiv Hair Gel Strong	Gel	7	Retail product	Nordisk Parfumerivarefabrik A/S Randers
Exclusiv Hair Mousse Normal	Mousse	11	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Exclusiv Hair Mousse Strong	Mousse	11	Retail product	Nordisk Parfumerivarefabrik A/S Randerse
Exclusiv Hair Spray Extra Hold	Hairspray	8	Retail product	Nordisk Parfumerivarefabrik, Randers
Exclusiv Hair Spray Strong	Hairspray	10	Retail product	Nordisk Parfumerivarefabrik A/S Randers
Exclusiv Hair Spray Strong uden parfume	Hairspray	9	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Exclusiv Hair Wax Strong	Wax	7	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Exclusiv Hairspray Normal	Hairspray	8	Retail product	Nordisk Parfumerivarefabrik A/S Randers
Frizz Ease Hårserum	Hair straightener	3	Retail product	John Frieda, London
Fructis Style Gloss Wax Normal	Wax	19	Retail product	Garnier, Paris DK: 70 15 41 00
Fructis Style Micro-Hold Spray Extra-Strong	Hairspray	17	Retail product	Garnier Paris Capilex A/S, København
Fructis Style Micro-Hold Spray Strong	Hairspray	17	Retail product	Garnier Paris Capilex A/S, København
Fructis Style Modelling Gel Extra-Strong	Gel	22	Retail product	Garnier Paris Capilex A/S København
Fructis Style Modelling Paste Strong	Gel	25	Retail product	Garnier Paris Capilex A/S København
Fructis Style Smoothing Mousse Strong	Mousse	23	Retail product	Garnier Paris Capilex A/S København
Fructis Style spiky Gel Ultra Strong	Gel	19	Retail product	Garnier Paris Capilex A/S København
Fructis Style Styling Milk Strong	Creme	27	Retail product	Garnier Paris Capilex A/S København
Fructis Style Styling Water Strong	Hairspray	19	Retail product	Garnier Paris Capilex A/S København
Fructis Style Volume Mousse Strong	Mousse	22	Retail product	Garnier Paris Capilex A/S København
Fudge for Hair Hair Putty Medium Hold	Wax	26	Hairdressing product	Sabre Corporation Sabre Europe UK
Gry Hairmousse	Mousse	12	Retail product	Dagligvare Gruppen, Vejle
Gry Hår Gele Kraftigt Stivende	Gel	9	Retail product	Nopa A/S, Randers, for Fakta A/S, Vejle
Gry Hår Gele Normalt Stivende	Gel	8	Retail product	Nopa A/S, Randers for Fakta A/S, Vejle
H&M Divided 01 Super Strong Hair Spray	Hairspray	8	Retail product	H&M, Stockholm

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
H&M Divided 02 Strong Hair Mousse	Mousse	11	Retail product	H&M, Stockholm
H&M Divided 03 Wax Mousse	Mousse	10	Retail product	H&M, Stockholm
H&M Divided 04 Extra Strong Hair Gel	Gel	7	Retail product	H&M, Stockholm
H&M Hair Gel Super Strong	Gel	7	Retail product	H&M, Stockholm
H&M Hair Mousse Super Strong	Mousse	8	Retail product	H&M, Stockholm
H&M Hair Spray Super Strong	Hairspray	7	Retail product	H&M, Stockholm
H&M Hair System Flexible Hair Spray 7	Hairspray	7	Retail product	H&M, Stockholm
H&M Hair System Maxi Hold Hair Spray +10	Hairspray	8	Retail product	H&M, Stockholm
H&M Hair System Resq Finishing Spray Straight 7	Hairspray	9	Retail product	H&M, Stockholm
H&M Hair System Resq Flexible Hair Mousse 7	Mousse	8	Retail product	H&M, Stockholm
H&M Hair System Resq Maxi Hold Hair Mousse +10	Mousse	10	Retail product	H&M, Stockholm
H&M Hair System Resq Shaping Paste 6	Creme	23	Retail product	H&M, Stockholm
H&M Hair System Resq Spray-On Liquid Gel 7	Gel spray	17	Retail product	H&M, Stockholm
H&M Hair System Resq Straightening Balm 7	Creme	14	Retail product	H&M, Stockholm
H&M Hair System Resq Styling Gum 10	Creme	13	Retail product	H&M, Stockholm
H&M Hair System Resq Super Hold Styling Gel 9	Gel	14	Retail product	H&M, Stockholm
H&M Hair System Resq Ultra Hold Hair Spray 8.5	Hairspray	10	Retail product	H&M, Stockholm
H&M Hair System Resq Ultra Hold Pudding 8.5	Gel	18	Retail product	H&M, Stockholm
H&M Hair System Soft Hold Glossing Wax 8.5	Wax	8	Retail product	H&M, Stockholm
H&M Hair System Stiff Moulding Wax	Wax	10	Retail product	H&M, Stockholm
H&M Hair System Ultra Hold Wax 6	Wax	16	Retail product	H&M, Stockholm
H&M L.O.G.G. Sport Hair Gel	Gel	7	Retail product	H&M, Stockholm
H&M L.O.G.G. Sport Hair Mousse	Mousse	10	Retail product	H&M, Stockholm
H&M L.O.G.G. Sport Hair Mousse Super Hold for Men	Mousse	13	Retail product	H&M, Stockholm
H&M L.O.G.G. Sport Hairspray	Hairspray	6	Retail product	H&M, Stockholm
H&M L.O.G.G. Sport Sculpting Gel	Gel	7	Retail product	H&M, Stockholm
H&M L.O.G.G. Sport Sculpting Gel Wax	Wax	13	Retail product	H&M, Stockholm
H&M Wax Mousse	Mousse	10	Retail product	H&M, Stockholm
Henna Plus Botanical Finishing Shine Brilliant Spray Super Shine	Hairspray	28	Retail product	Frenchtop Cosmetics Europe B.V. Holland
Henna Plus Botanical Volume Styling Brushing Mousse	Mousse	14	Retail product	Frenchtop Cosmetics B.V. Holland
Henna Plus Botanical Volume Styling Forming Gel Extra Strong	Gel	31	Retail product	Frenchtop cosmetics Europe B.V. Holland
Henna Plus Botanical Volume Styling Gel Spray Extra Strong	Gel spray	23	Retail product	Frenchtop Cosmetics Europe B.V., Holland
ID Hair The Original Mud Wax	Wax	22	Hairdressing product	ID Frisør Design A/S, Lystrup, DK
It Professional Hair Spray Super	Hairspray	9	Retail product	Distribueret af Skovkrog

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
Hold				Trading ApS, Herlev
John Frieda Sheer Blonde Blonde Ambition Dobbeltvirkende Mousse	Mousse	14	Retail product	Gaëlle International, LLC, London
John Frieda Sheer Blonde Crystal Clear	Hairspray	9	Retail product	Gaëlle International LLC London
John Frieda Sheer Blonde Funky Chunky	Gel	15	Retail product	Gaëlle International LLC London
John Frieda Sheer Blonde Golden Opportunity Styling and Glossing Creme	Creme	21	Retail product	Gaëlle International, LLC, London
John Frieda Sheer Blonde Spotlight	Gel spray	13	Retail product	Gaëlle International LLC, London
John Frieda Sheer Blonde Spun Gold	Wax	8	Retail product	Gaëlle International, LLC, London
Keune Care Line Air-Fix Natural Hairspray Styling Super Hold	Hairspray	14	Hairdressing product	Keune Haircosmetics, Amsterdam, NL
Keune Gel Ultra Forte +UV Filtre	Gel	12	Hairdressing product	Keune Haircosmetics, Amsterdam, NL
Keune Mousse Set & Styling Forte	Mousse	16	Hairdressing product	Keune Haircosmetics, Amsterdam, NL
Keune Pearl Shine Gel Hold 12 Factor Extra	Gel spray	20	Hairdressing product	Keune Haircosmetics, Amsterdam, NL
Keune Society Hairspray	Hairspray	5	Hairdressing product	Keune Haircosmetics, Amsterdam, NL
Keune Straight & Style Hold 10 Factor Regular	Hair straightener	26	Hairdressing product	Keune Haircosmetics, Amsterdam, NL
KMS AMP Volume Styling Foam	Mousse	15	Hairdressing product	KMS Research (UK) Ltd., UK
KMS Moisture Replace 2-in-1 Styling Spray Medium Hold	Hairspray	21	Hairdressing product	KMS Research Ltd., UK
KMS Paste Molding Compound F For All Hair Types	Creme	19	Hairdressing product	KMS Research (U.K.) Ltd., England
Lancôme Fluançe Laque Very Gentle Hairspray	Hairspray	8	Retail product	Lancôme Paris
Lanet Hair Spray Ekstra Hold	Hairspray	8	Retail product	Nordisk Parfumerievarefabrik A/S, Randers
L'Oréal Studio Line Fixing Spray Super Strong	Hairspray	12	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Elnett Flexible Laque Kraftig	Hairspray	6	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Elnett Flexible Normal	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Elnett Satin Kraftig	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Elnett Satin Laque Extra Kraftig	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S, København
L'Oréal Elnett Satin Normal	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal El'Vital Fixing Gel Strong	Gel	9	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal El'Vital Fixing Spray Normal	Hairspray	9	Retail product	L'Oréal Paris Capilex A/S, København
L'Oréal El'Vital Fixing Spray Strong	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal El'Vital Styling Mousse Nutri-Filter	Mousse	18	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal El'Vital Styling Mousse Normal	Mousse	16	Retail product	L'Oréal Paris Capilex A/S, København
L'Oréal El'Vital Styling Mousse Nutri-Ceramide Hold og Volume	Mousse	21	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal El'Vital Styling Mousse Strong	Mousse	16	Retail product	L'Oréal Paris Capilex A/S København

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
L'Oréal FX Studio Crystal Wax	Wax	23	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal FX Studio Invisi'spray Super Strong	Hairspray	10	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal FX Studio Line Invisi'gel Mega Strong	Gel	9	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal FX Studio Line Invisi'Gel Super Strong	Gel	10	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal FX Studio Out of Bed Fibre Cream	Creme	15	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal FX Studio Wet Look Gel Strong	Gel	14	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Kérastase Finition Mousse Hold & Glans Ekstra Hold	Mousse	17	Hairdressing product	L'Oréal Paris Capilex A/S, København
L'Oréal Kérastase Finition Perfecteur Spray Final Ekstra Hold	Hairspray	8	Hairdressing product	L'Oréal, Paris Capilex A/S, København
L'Oréal Kérastase Finition Spray Définition Styrke og Glans	Hairspray	4	Hairdressing product	L'Oréal Paris Capilex A/S, København
L'Oréal Professionnel Ahead Clay Matt-effect Designer	Wax	13	Hairdressing product	L'Oréal Professionnel, Paris L'Oréal Danmark A/S, København
L'Oréal Professionnel Ahead Glue Structuring Fibre Gel Ekstra Kraftig Hold	Gel	11	Hairdressing product	L'Oréal Professionnel, Paris L'Oréal Capilex A/S, København
L'Oréal Professionnel Digit Gloss Shiny and Contrast Pomade 02	Wax	22	Hairdressing product	L'Oréal Professionnel, Paris L'Oréal Danmark A/S, København
L'Oréal Professionnel Fix Anti-Frizz Anti-Humidity Fixing Spray 04	Hairspray	11	Hairdressing product	L'Oréal Professionnel Paris L'Oréal Danmark A/S, København
L'Oréal Professionnel Fix Design Directional Fixing Spray Ekstra Kraftig Hold	Hairspray	6	Hairdressing product	L'Oréal Professionnel, Paris L'Oréal Danmark A/S, København
L'Oréal Professionnel Fix Max Construction and Fixing Gel 06	Gel	10	Hairdressing product	L'Oréal Professionnel Paris L'Oréal Danmark A/S, København
L'Oréal Professionnel Infinium Finition xf Professional Hairspray Extra Firm Hold	Hairspray	8	Hairdressing product	L'Oréal Professionnel, Paris Capilex A/S, København
L'Oréal Professionnel Infinium Professional Hairspray Creative	Hairspray	9	Hairdressing product	L'Oréal Paris Capilex A/S, København
L'Oréal Professionnel Tec Ni Art Fix Gelé Extra Fix	Gel	9	Hairdressing product	L'Oréal Paris, Capilex, København
L'Oréal Professionnel Volume+ Volumising Protective Mousse 05	Mousse	16	Hairdressing product	L'Oréal Professionnel, Paris L'Oréal Danmark A/S, København
L'Oréal Special FX Studio Radical Gel Extreme Fixing Effect Fibre Gel	Gel	12	Retail product	L'Oréal Paris Capilex A/S, København
L'Oréal Special FX Studio Straight Lasting Smooth Effect	Hair straightener	18	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Creating Gel Mega Strong	Gel	13	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Creating Gel Super Strong	Gel	17	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Expert Finish Finishing Spray Strong	Hairspray	8	Retail product	L'Oréal Paris DK: 70 15 41 00
L'Oréal Studio Line Expert Finish Finishing Spray Super Strong	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Flexible Spray Super Strong	Hairspray	8	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Hair Wax Super Strong	Wax	9	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Mega Fixing Spray Mega Strong	Hairspray	7	Retail product	L'Oréal Paris Capilex A/S København

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
L'Oréal Studio Line Styling Mousse Mega Strong	Mousse	16	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Styling Mousse Strong	Mousse	16	Retail product	L'Oréal Paris Capilex A/S København
L'Oréal Studio Line Styling Mousse Super Strong	Mousse	16	Retail product	L'Oréal Paris Capilex A/S København
LR International Color & Shine Gel (Grenadine, Sherry, Bordeaux, Blackberry, Copper)	Gel	20	Hairdressing product	LR International, Aabenraa
LR International Color & Shine Gel (Hazelnut, Blond Champagne, Gold Blond)	Gel	22	Hairdressing product	LR International, Aabenraa
LR International Haarspray Natural Finish	Hairspray	12	Hairdressing product	LR International, Aabenraa
LR International Hair Repair Thymus Hair Forming Gel	Gel	19	Hairdressing product	LR International, Aabenraa
LR International Hair Vital Haarspray Ultra Strong	Hairspray	8	Hairdressing product	LR International, Aabenraa
LR International Hair Vital Styling Gel	Gel	10	Hairdressing product	LR International, Aabenraa
LR International Hair Vital Styling Gel Laquer	Gel spray	6	Hairdressing product	LR International, Aabenraa
LR International Hair Vital Styling Mousse Natural Hold	Mousse	11	Hairdressing product	LR International, Aabenraa
LR International Hair Vital Styling Mousse Ultra Strong	Mousse	11	Hairdressing product	LR International, Aabenraa
Matas Formskum med Kamille	Mousse	13	Retail product	Matas A/S, Allerød
Matas Formskum med Kamille Ekstra Hold	Mousse	13	Retail product	Matas A/S, Allerød
Matas Formskum med Silkeprotein	Mousse	12	Retail product	Matas A/S, Allerød
Matas Frisércreme	Creme	8	Retail product	Matas A/S, Allerød
Matas Geléspray Uparfumeret	Gel spray	10	Retail product	Matas A/S, Allerød
Matas Hair Style Fixing Spray Ekstra Hold og Volumen	Hairspray	5	Retail product	Matas A/S, Allerød
Matas Hair Style Gel Wax	Wax	12	Retail product	Matas A/S, Allerød
Matas Hair Style Gloss Spray	Hairspray	6	Retail product	Matas A/S, Allerød
Matas Hair Style Hair Mousse	Mousse	14	Retail product	Matas A/S, Allerød
Matas Hair Style Shine Setting Glans og Volumen	Hairspray	15	Retail product	Matas A/S, Allerød
Matas Hair Style Spray On Gel	Gel spray	13	Retail product	Matas A/S, Allerød
Matas Hair Style Sun Shield Spray	Other	6	Retail product	Matas A/S, Allerød
Matas Hårgelé Uparfumeret Ekstra Kraftig	Gel	7	Retail product	Matas A/S, Allerød
Matas Hårgelé Uparfumeret Kraftig	Gel	8	Retail product	Matas A/S, Allerød
Matas Hårgelé Uparfumeret Normal	Gel	8	Retail product	Matas A/S, Allerød
Matas Hårmousse med Panthenol Uparfumeret	Mousse	12	Retail product	Matas A/S, Allerød
Matas Hårspray	Hairspray	8	Retail product	Matas A/S, Allerød
Matas Hårspray Uparfumeret Ekstra Hold	Hairspray	7	Retail product	Matas A/S, Allerød
Matas Hårvoks	Wax	13	Retail product	Matas A/S, Allerød
Matas Hårvoks Uparfumeret	Hairspray	13	Retail product	Matas A/S, Allerød
Mop Glisten Eco-Light Variable Hold Hairspray	Hairspray	14	Hairdressing product	Modern Organic Products, Inc. Denver, USA

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
MOP Glisten Light Hold Gel	Gel	17	Hairdressing product	Modern Organic Products, Inc. Denver
MOP Modern Organic Products Defining Cream	Creme	25	Hairdressing product	Modern Organic Products, Inc. Denver
MOP Modern Organic Products Form Foaming Gel Medium/Firm Hold	Gel spray	23	Hairdressing product	Modern Organic Products, Inc. Denver
MOP Modern Organic Products Molding Cream	Creme	28	Hairdressing product	Modern Organic Products, Inc. Denver
MOP Modern Organic Products Pomade	Wax	24	Hairdressing product	Modern Organic Products, Inc., Denver
Oriflame Professional Hair Care System Fixing Hair Spray Super Strong Hold	Hairspray	8	Mail order product	Oriflame International
Oriflame Professional Hair Care System Styling Gel Super Control	Gel	18	Mail order product	Oriflame International
Oriflame Professional Hair Care System Styling Mousse Super Volume	Mousse	16	Mail order product	Oriflame International
Pantene Pro-V Boosting Spray Volumen	Hairspray	11	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Controlling Gel Blødt	Gel	12	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Controlling Mousse Blødt	Mousse	14	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Curl Definition Spray Perfekt Krøl	Hairspray	19	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Defining mousse	Mousse	14	Retail product	Procter & Gamble UK DK 7012 3839
Pantene Pro-V Gel	Gel	13	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Hairspray Normal Hold	Hairspray	13	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Healthy hold spray	Hairspray	13	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Healthy Hold Spray Extra/Extra Strong	Hairspray	13	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Healthy Hold Spray Perfekt Krøl	Hairspray	13	Retail product	Procter & Gamble UK DK: 701203839
Pantene Pro-V Lifting Gel	Gel	13	Retail product	Procter & Gamble UK DK 7012 3839
Pantene Pro-V Opbyggende mousse	Mousse	14	Retail product	Procter & Gamble UK DK 7012 3839
Pantene Pro-V Sculpting Gel	Gel	12	Retail product	Procter & Gamble UK DK: 7012 3839
Pantene Pro-V Smoothing creme	Hair straightener	14	Retail product	Procter & Gamble UK DK 7012 3839
Pantene Pro-V Style Freeze Hairspray Maximum Hold	Hairspray	13	Retail product	Procter & Gamble, UK DK: 7012 3839
Paul Mitchell Extra-Body Sculpting Foam Firm-hold	Mousse	16	Hairdressing product	John Paul Mitchell Systems, U.K.
Paul Mitchell Finish Dry Wax	Wax	19	Hairdressing product	John Paul Mitchell Systems, UK
Paul Mitchell Finish Spray Wax 3-D Texture and Flexible Hold	Wax	8	Hairdressing product	John Paul Mitchell Systems, UK
Paul Mitchell Finish Super Clean Extra Firm-hold Finishing Spray	Hairspray	17	Hairdressing product	John Paul Mitchell Systems, UK
Paul Mitchell Super Sculpt Quick-drying Styling Glanze	Hairspray	14	Hairdressing product	John Paul Mitchell Systems, UK
Paul Mitchell Volumizing Stray	Hairspray	16	Hairdressing product	John Paul Mitchell Systems, UK
PHC Professional Styling Gel Pro Vitamin B5 Hvedeprotein Henna	Gel	16	Retail product	Marinello Cosmetics A/S Denmark

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
PHC Professional Water Wax	Wax	12	Retail product	Marinello Cosmetics A/S Denmark
Poly Swing Volumen Haarlack Extra Strong	Hairspray	9	Retail product	Schwarzkopf & Henkel Henkel Denmark A/S
Poly Swing Volumen Modellier Vax Extra Strong	Wax	17	Retail product	Schwarzkopf & Henkel Henkel Denmark
Poly Swing Volumen Styling Gel Extra Strong	Gel	16	Retail product	Schwarzkopf & Henkel Henkel Denmark A/S
Poly Swing Volumen-Schaum Extra Strong	Mousse	13	Retail product	Schwarzkopf & Henkel Henkel Denmark A/S
Proffs Mousse Maximum Strong	Mousse	15	Retail product	Yellow Submarine AB, Stockholm
Redken 5th Avenue NYC No. 18 Styling Quick Dry Shaping Mist Firm Hold	Hairspray	12	Hairdressing product	Redken Laboratories LLC, Dist., London, UK
Redken 5th Avenue NYC Styling No. 3 Water Wax	Wax	20	Hairdressing product	Redken Laboratories, London, UK
Redken 5th Avenue NYC Styling No. 5 Touch Control Soft Hold	Gel	21	Hairdressing product	Redken Laboratories LLC, Dist., London, UK
Redken 5th Avenue NYC Styling No. 16 Hardwear Super Strong Gel Firm Hold	Gel	18	Hairdressing product	Redken Laboratories LLC, Dist, London, UK
Royal d'or Føn Gele	Gel	7	Retail product	Nordisk Parfumevarefabrik A/S, Randers
Royal d'or Frisure Gele Kraftigt stivende	Gel	7	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Royal d'or Frisure Gele Normalt stivende	Gel	7	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Royal d'or Gelespray Føn	Gel spray	6	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Royal d'or Gelespray Kraftigt stivende	Gel spray	6	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Royal d'or Gelespray Normal stivende	Gel spray	6	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Royal d'or Hairspray Krystalklar	Hairspray	8	Retail product	Nordisk Parfumerivarefabrik A/S, Randers
Schwarzkopf OSIS Mess Up	Wax	15	Hairdressing product	Hans Schwarzkopf GmbH & Co. KG
Schwarzkopf Professional Silhouette Final Tough	Creme	15	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Gloss Creme	Creme	15	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Hairspray	Hairspray	8	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Hairspray Normal Hold	Hairspray	6	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Multistylers	Gel	16	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Natural Hold Pumpspray	Hairspray	3	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Superhold Styling Gel	Gel	13	Hairdressing product	Schwarzkopf Professional, Division af Henkel, Taastrup
Schwarzkopf Professional Silhouette Wet Styling Gel	Gel	13	Hairdressing product	Schwarzkopf Professional Division af Henkel, Taastrup
Soft Sheen Sportin' Waves Gel Pomade	Wax	16	Retail product	Soft Sheen Products Inc. USA
Soft Sheen Sproting' Waves Maximum Hold Pomade	Wax	6	Retail product	Soft Sheen Products Inc. USA
Stender Gelé	Gel	5	Retail product	Stender Produktion, Karlslunde
Stender Geléspray	Gel spray	5	Retail product	Stender Produktion, Karlslunde
Stender Hairspray Extra Hold	Hairspray	10	Retail product	Stender International, Karlslunde

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
Stender Hard Wax	Wax	3	Retail product	Stender Produktion, Karlslunde
Stender Mousse	Mousse	12	Retail product	Stender International, Karlslunde
Stender Perlegelé	Gel	9	Retail product	Stender Produktion, Karlslunde
Stuhr Cosmetics Hair Glance	Wax	6	Retail product	ES Products Copenhagen
Stuhr Hair Cosmetics HairSpray	Hairspray	6	Retail product	ES Products Copenhagen
Stuhr Hair Cosmetics Mousse	Mousse	12	Retail product	ES Products Copenhagen
Stuhr Hair Cosmetics Styling Gel 3	Gel	9	Retail product	ES Products Copenhagen
Super Silk Professional Hair Mousse with Silk Protein Super Extra Hold	Mousse	11	Retail product	Corsair Toiletries Ltd. England
Super Silk Professional Hairspray with Silk Protein Super Extra Hold	Hairspray	11	Retail product	Corsair Toiletries Ltd., England
Swiss Formula Silk Pro Vitamin Hairspray Ultimate Hold	Hairspray	18	Retail product	St. Ives, Schweiz Cederroth, Albertslund Danmark
Swiss Formula Styling Mousse	Mousse	21	Retail product	St. Ives Schweiz Cederroth, Albertslund
The Body Shop Body Mechanics for Men Slick	Gel	16	Retail product	The Body Shop
The Body Shop Coconut Oil Hair Shine	Wax	13	Retail product	The Body Shop
The Body Shop Define & No Frizz Styling Cream	Creme	23	Retail product	The Body Shop
The Body Shop Gloss Over Glossing Wax Medium Hold	Wax	10	Retail product	The Body Shop
The Body Shop Going Straight Straightening Balm	Hair straightener	12	Retail product	The Body Shop
The Body Shop Hair Styling Wax	Wax	11	Retail product	The Body Shop
The Body Shop Hold Still Styling Gel	Gel	20	Retail product	The Body Shop
The Body Shop Hold Tight Styling Gel	Gel	20	Retail product	The Body Shop
The Body Shop No Hassle Detangling Spray	Other	5	Retail product	The Body Shop
The Body Shop Think Big Volumising Spray	Hairspray	12	Retail product	The Body Shop
TIGI Haircare Bed Head Voksstift Bed Head	Wax	8	Hairdressing product	HairMix, Odense SV
TIGI Haircare Creative Genius Bed Head	Gel	15	Hairdressing product	HairMix, Odense SV
TIGI Haircare Curl Jam Styling	Gel	19	Hairdressing product	HairMix, Odense SV
TIGI Haircare Designer Spray Finishing	Hairspray	13	Hairdressing product	HairMix, Odense SV
TIGI Haircare Hold & Gloss Spray Finishing	Hairspray	6	Hairdressing product	HairMix, Odense SV
TIGI Haircare Manipulator Bed Head	Creme	23	Hairdressing product	HairMix, Odense SV
TIGI Haircare Molding Gel Styling	Gel	29	Hairdressing product	HairMix, Odense Sv
TIGI Haircare Pure Gloss Finishing	Other	7	Hairdressing product	HairMix, Odense SV
TIGI Haircare Root Boost Styling	Mousse	16	Hairdressing product	HairMix, Odense SV
TIGI Haircare Shine Junkie Bed Head	Wax	10	Hairdressing product	HairMix, Odense Sv
TIGI Haircare Straight Talk Flattening Balm Styling	Hair straightener	18	Hairdressing product	HairMix, Odense SV
TIGI Haircare Strong Hair Glanze	Wax	4	Hairdressing	HairMix, Odense SV

Product name	Product type	Number of constituent	Purchase category	Producer/Importer
Finishing			product	
TIGI Haircare Style Shine Styling	Gel spray	28	Hairdressing product	HairMix, Odense Sv
TIGI Haircare Texturising Pomade Essensuals	Other	22	Hairdressing product	HairMix, Odense SV
TIGI Haircare Thickening Creme Essensuals	Creme	21	Hairdressing product	HairMix, Odense SV
TIGI Haircare Uptight Varmeaktiverende Krølskaber Bed Head	Hairspray	21	Hairdressing product	HairMix, Odense SV
TOP Føn Gele	Gel	7	Retail product	Dansk Supermarked Indkøb A/S, Højbjerg
TOP Frisure Gele Kraftigt Stivende	Gel	7	Retail product	Dansk Supermarked Indkøb A/S, Højbjerg
TOP Frisure Gele Normal Stivende	Gel	7	Retail product	Dansk Supermarked Indkøb A/S, Højbjerg
Unique Haircare Kur Mousse Normal	Mousse	13	Retail product	Unique Products Denmark
Unique Haircare Kur Mousse Stærk	Mousse	13	Retail product	Unique Products Denmark
Wella High Hair Foamy Wax Strong	Creme	14	Hairdressing product	Wella AG, Darmstadt, Tyskland
Wella High Hair Haarlack Extra Stark	Hairspray	9	Hairdressing product	Wella AG, Darmstadt, Tyskland
Wella High Hair Haarlack Starker Halt	Hairspray	9	Hairdressing product	Wella AG, Darmstadt, Tyskland
Wella High Hair Haarlack Ultra Stark	Hairspray	10	Hairdressing product	Wella AG, Darmstadt, Tyskland
Wella High Hair Pearl Styler Extra Strong	Hairspray	12	Hairdressing product	Wella AG, Tyskland
Wella High Hair Styling Schaum Starker Halt	Mousse	10	Hairdressing product	Wella AG, Darmstadt, Tyskland
Wella Shock Waves Hair Spray Ultra Strong	Hairspray	12	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wella Shock Waves Max Hold Gel Ultra Strong	Gel	11	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wella Shock Waves Moulding Wax Strong	Wax	7	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wella Shock Waves Volume Mousse Ultra Strong	Mousse	17	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wella Wellaflex for Men Mousse Strong Hold	Mousse	16	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wella Wellaflex Mousse Extra Strong Hold	Mousse	12	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wellaflex Hairspray Extra Strong	Hairspray	9	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wellaflex Hairspray Strong Hold	Hairspray	9	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wellaflex Hairspray Super Strong	Hairspray	9	Retail product	Wella AG, Tyskland Salgskompagniet A/S Herlev
Wellaflex Mousse Strong Hold	Mousse	15	Retail product	Wella AG, Tyskland Salgskompagniet A/S, Herlev
Wellaflex Mousse Super Strong	Mousse	12	Retail product	Wella AG, Tyskland Salgskompagniet A/S
Wellaflex Mousse Without Alcohol	Mousse	15	Retail product	Wella AG, Tyskland Salgskompagniet A/S Herlev

List of all constituents in hairstyling products (alphabetical)

This enclosure is an overview of all chemical substances that are found in the mapped hairstyling products. There are in total 585 different substances in the 328 mapped hairstyling products.

Furthermore, the enclosure shows how often the different chemical substances are found as well as with which average ranking they are found (that means in which order the constituents are listed on the products). Thus the ranking is an indication of the relative concentration of the constituents in the products (that means an indication of which relative concentration on average the substances are a part of). A low number (high ranking) expresses that the substance is a main constituent in the product whereas a high number (low ranking) indicates that the substance is an additive, for instance preservatives.

At the same time the table shows in how many of the 328 products the substances appear and the average ranking of these substances.

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
2-AMINOBUTANOL	96-20-8	2-aminobutan-1-ol	buffering agents	3	9,3
2-BROMO-2-NITRO-PROPANE-1,3-DIOL	52-51-7	Bronopol	preservatives	2	9,0
2-NITRO-p-PHENYLENE-DIAMINE	5307-14-2	2-nitro-p-phenylenediamine (CI 76070)	hair dyes	2	11,0
2-OLEAMIDO-1,3-OCTA-DECANEDIOL		1, 3-octadecanediol, 2-oleamido-	additives	8	9,1
ACER SACCHARINUM		Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Acer saccharinum	biological additives	2	18,0
ACETAMIDE MEA	142-26-7	N-2-hydroxyethylacetamide	antistatic agents / humectants	3	9,7
ACETONE	67-64-1	Acetone	denaturants / solvents	1	3,0
ACETYLATED LANOLIN	61788-48-5	Lanolin, acetate	antistatic agents / emollients / emulsifying agents	1	3,0
ACETYLATED LANOLIN ALCOHOL	61788-49-6	Acetic acid, esters with lanolin alcs	antistatic agents / emollients / emulsifying agents	2	14,0
ACHILLEA MILLEFOLIUM	84082-83-7	Yarrow, Achillea millefolium, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Achillea millefoliu	botanicals	4	14,0
ACRYLATES / ACRYLAMIDE COPOLYMER		Propenamide, polymer with propenoic acid, butenoic acid, and/or alkyl propenoates	film formers	10	3,5
ACRYLATES / C10-30 ALKYL ACRYLATE CROSS-		C10-C30 alkyl propenoate, polymer with propenoic acid, butenoic acid and/or alkyl propenoates,	film formers	9	8,1

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
POLYMER		product with propenyl sucrose ether or propenyl 2, 2-dihydroxymethyl-1, 3-propanediol			
ACRYLATES / DIMETHICONE COPOLYMER				3	6,0
ACRYLATES / PVP COPOLYMER	26589-26-4	2-propenoic acid, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone and ethyl 2-methyl-2-propenoate	antistatic agents / binders / film formers	2	8,5
ACRYLATES / STEARETH-20 METHACRYLATE COPOLYMER		Stearyl alcohol, product with oxirane, butenoate ester, polymer with propenoic acid, butenoic acid, and/or alkyl propenoates	viscosity controlling agents	1	11,0
ACRYLATES / t-BUTYL-ACRYLAMIDE COPOLYMER				2	3,0
ACRYLATES COPOLYMER	25133-97-5	2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate	antistatic agents / binders / film formers	17	6,6
ACTINIDIA CHINENSIS	92456-63-8	Actinidia chinensis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Actinidia chinensis, Actinid	botanicals	10	18,5
AESCULUS HIPPOCASTANUM	8053-39-2	Horse chestnut, Aesculus hippocastanum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Aesculus	botanicals	1	10,0
ALANINE	56-41-7, 302-72-7	L-alanine, DL-alanine	antistatic agents	1	13,0
ALCOHOL	64-17-5	Ethanol	solvents	17	3,5
ALCOHOL DENAT.	64-17-5	Ethanol	solvents	161	1,7
ALGAE			botanicals	1	9,0
ALLANTOIN	97-59-6	Allantoin	oral care agents	1	9,0
ALOE BARBADENSIS	85507-69-3	Aloe vera, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Aloe vera, Liliaceae	emollients	14	6,9
ALTHEA OFFICINALIS	73049-65-7	Marshmallow (Althaea officinalis), ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Althaea offic	emollients	1	16,0
ALUMINUM DISTEARATE	300-92-5	Hydroxyaluminium distearate	emulsion stabilisers / opacifiers / viscosity controlling agents	1	5,0
AMINOMETHYL PROPANOL	124-68-5	2-amino-2-methylpropanol	buffering agents	107	7,1
AMMONIUM BENZOATE	1863-63-4	Ammonium benzoate	preservatives	3	11,0
AMMONIUM HYDROXIDE	1336-21-6	Ammonia, aqueous solution	buffering agents / denaturants	1	5,0
AMMONIUM LAURYL SULFATE	2235-54-3	Ammonium dodecyl sulphate	surfactants	1	4,0
AMODIMETHICONE			antistatic agents	16	9,5
AMODIMETHICONE CETRIUM CHLORIDE				1	7,0

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
AMP-ISOSTEAROYL HYDROLYZED WHEAT PROTEIN		Protein hydrolyzates, wheat gluten, isostearoyl-, product 2-amino-2-methylpropanol	emulsifying agents	2	9,5
ANTHEMIS NOBILIS	84649-86-5	Anthemis nobilis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Anthemis nobilis, Compositae	biological additives	7	14,6
AQUA	7732-18-5	Water	solvents	257	1,8
ARGININE	74-79-3, 7002-25-1	Arginine, DL-arginine	antistatic agents	1	17,0
ASCORBIC ACID	50-81-7	Ascorbic acid	antioxidants / buffering agents	1	21,0
BASIC BLUE 9	61-73-4	Methylthioninium chloride (CI 52015)	hair dyes	2	18,5
BASIC BLUE 99	68123-13-7	3-[(4-amino-6-bromo-5, 8-dihydro-1-hydroxy-8-imino-5-oxo-2-naphthyl)amino]-N, N, N-trimethylanilinium chloride (CI 56059)	hair dyes	2	14,0
BASIC BROWN 16	26381-41-9	[8-[(p-aminophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12250)	hair dyes	2	16,0
BASIC BROWN 17	71134-97-9	[8-[(4-amino-2-nitrophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12251)	hair dyes	2	17,0
BASIC RED 2	477-73-6	3, 7-diamino-2, 8-dimethyl-5-phenylphenazinium chloride (CI 50240)	hair dyes	2	19,5
BASIC RED 76	68391-30-0	[7-hydroxy-8-[(2-methoxyphenyl)azo]-2-naphthyl]trimethylammonium chloride (CI 12245)	hair dyes	2	13,0
BASIC VIOLET 14	632-99-5	(4-(4-aminophenyl)(4-iminocyclohexa-2, 5-dienylidene)methyl)-2-methylaniline hydrochloride (CI 42510)	hair dyes	2	20,5
BASIC YELLOW 57	68391-31-1	3-[(4, 5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-N, N, N-trimethylanilinium chloride (CI 12719)	hair dyes	2	12,0
BEESWAX ACID		Fatty acids, beeswax	additives	4	4,3
BEHENTRIMONIUM CHLORIDE	17301-53-0	Docosyltrimethylammonium chloride	preservatives	3	12,0
BEHENTRIMONIUM METHOSULFATE	81646-13-1	Docosyltrimethylammonium methyl sulphate	antistatic agents / surfactants	3	12,3
BENZALKONIUM CHLORIDE	63449-41-2 8001-54-5	Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	preservatives	1	14,0
BENZOIC ACID	65-85-0	Benzoic acid	preservatives	4	13,0
BENZOPHENONE-2	131-55-5	2, 2', 4, 4'-tetrahydroxybenzophenone	U.V. absorbers	1	11,0
BENZOPHENONE-3	131-57-7	Oxybenzone	U.V. absorbers	11	13,9
BENZOPHENONE-4	4065-45-6	Sulisobenzone	U.V. absorbers	46	12,1
BENZYL ALCOHOL	100-51-6	Benzyl alcohol	preservatives / solvents	14	10,1
BERTHOLLETIA EXCELSA			solvents	1	6,0
BETAINE	107-43-7	Betaine	antistatic agents / viscosity controlling agents	7	7,9
BHA	25013-16-5	Tert-butyl-4-methoxyphenol	antioxidants	2	12,5
BHT	128-37-0	2, 6-di-tert-butyl-P-cresol	antioxidants	5	12,2
BISABOLOL	515-69-5	(R*, R*)-a, 4-dimethyl-a-(4-methyl-3-pentenyl)cyclohex-3-ene-1-methanol	additives	3	9,0
BUTANE	106-97-8	Butane	propellants	96	3,4
BUTYL ESTER OF ETHY-			antistatic agents /	1	3,0

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
LENE / MA COPOLYMER			binders / film formers		
BUTYL ESTER OF PVM / MA COPOLYMER	25119-68-0	2-butenedioic acid (Z)-, polymer with methoxyethene, monobutyl ester	antistatic agents / film formers	5	3,4
BUTYL METHOXYDI-BENZOYLMETHANE	70356-09-1	1-[4-(1, 1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1, 3-dione	U.V. absorbers	1	9,0
BUTYLENE GLYCOL	107-88-0	Butane-1, 3-dio	humectants / solvents	7	8,1
BUTYLPARABEN	94-26-8	Butyl 4-hydroxybenzoate	preservatives	28	15,4
BUXUS CHINENSIS	90045-98-0, 61789-91-1	Jjoba, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Simmondsia chinensis</i> N., Buxaceae; Extrac	botanicals; emollient	5	13,4
C12-15 ALKYL BENZOATE	68411-27-8	Benzoic acid, C12-15-alkyl esters	emollients	6	6,5
C13-14 ISOPARAFFIN	64365-06-6	Alkanes, iso-, C13-14	emollients / solvents	3	9,0
C18-36 ACID GLYCOL ESTER	94944-95-3	Fatty acids, C18-36, esters with ethylene glycol	emollients	1	8,0
C9-11 PARETH-8	68439-46-3	Alcohols, C9-11, ethoxylated	emulsifying agents	3	10,0
CALCIUM CARBONATE	471-34-1	Calcium carbonate	abrasives / buffering agents / opacifiers / oral care agents	1	6,0
CALCIUM HYDROXIDE	1305-62-0	Calcium dihydroxide	buffering agents	1	5,0
CALCIUM PANTOTHENATE	137-08-6, 6381-63-1	Calcium pantothenate , D-form: Calcium (.+.-)-N-(2, 4-dihydroxy-3, 3-dimethyl-1-oxobutyl)-á-alaninate	antistatic agents	3	14,3
CALENDULA OFFICINALIS	84776-23-8	Calendula officinalis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Calendula officinalis</i> , Com	emollients	1	6,0
CAMELIA OLEIFERA		Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Camelia oleifera</i>	botanicals	3	15,3
CAMELIA SINENSIS	84650-60-2	Tea, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Thea chinensis</i> , Theaceae	botanicals	8	10,5
CANANGA ODORATA	83863-30-3	Ylang-ylang, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Cananga odorata</i> , Annonaceae	emollients	2	21,0
CANDELILLA CERA	8006-44-8	Candelilla wax. The wax from <i>Euphorbia anti-siphylitica</i> or <i>Pedilanthus pavonis</i> , Euphorbiaceae	emollients / film formers	1	5,0
CAPRYLIC / CAPRIC / STEARIC TRIGLYCERIDE		Octadecanoic acid, mixed triesters with octanoic acid, decanoic acid and 1, 2, 3-propanetriol	emollients / solvents	1	4,0
CAPRYLIC / CAPRIC TRIGLYCERIDE	73398-61-5 65381-09-1	Glycerides, mixed decanoyl and octanoyl	emollients / solvents	6	6,7
CAPRYLYL PYRROLIDONE	2687-94-7	Pyrrolidone, N-octyl-	surfactants	3	10,0
CARAMEL	8028-89-5	Caramel (color). The substance obtained by controlled heat treatment of food-grade carbo-	cosmetic colorants	2	25,0

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
		hydrates. Food-grade acids, alkalies, and salts may be used to assist carmelization. Food-grade antifoaming agents may be used in an amount not greater than that re			
CARBOMER	9007-20-9 9003-01-4	Carbomer	emulsion stabilisers / viscosity controlling agents	70	5,4
CARBOMER 940				1	3,0
CARNAUBA	8015-86-9	Carnauba wax. The wax derived from Copernicia cerifera, Palmae	emollients / film formers	4	9,0
CARTHAMUS TINCTORIUS	8001-23-8	Safflower oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid linoleic. (Carthamus tinctorius, Compositae); Extractives and their physically modified derivatives such as tinctures, concrete	emollients	2	5,0
CELETH-20				1	5,0
CERA ALBA	8012-89-3 8006-40-4	Beeswax. The wax obtained from the honeycomb of the bee. It consists primarily of myricyl palmitate, cerotic acid and esters and some high-carbon paraffins	emollients / emulsifying agents / film formers	6	2,7
CERA MICROCRISTALLINA	63231-60-7	Paraffin waxes and Hydrocarbon waxes, micro-cryst.. A complex combination of long, branched chain hydrocarbons obtained from residual oils by solvent crystallization. It consists predominantly of saturated straight and branched chain hydrocarbons predomina	binders / emulsion stabilisers / opacifiers / viscosity controlling agents	5	5,2
CERAMIDE 2				1	28,0
CERESIN	8001-75-0	Ceresin. A complex combination of hydrocarbons produced by the purification of ozocerite with sulfuric acid and filtration through bone black to form waxy cakes	antistatic agents / binders / emulsion stabilisers / opacifiers / viscosity controlling agents	2	6,5
CEREUS GRANDIFLORUS	8007-78-1	Selenicereus grandiflorus, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Selenicereus grandiflo	botanicals	5	10,8
CETEARETH-12	68439-49-6		emulsifying agents	1	9,0
CETEARETH-20	68439-49-6		emulsifying agents / surfactants	7	6,9
CETEARETH-25	68439-49-6		emulsifying agents / surfactants	7	6,7
CETEARETH-30	68439-49-6		emulsifying agents / surfactants	5	2,8
CETEARETH-6	68439-49-6		emulsifying agents	1	8,0
CETEARYL ALCOHOL	67762-27-0 8005-44-5	Alcohols, C16-18. This substance is identified by SDA Substance Name: C16-C18 alkyl alcohol and SDA Reporting Number: 19-060-00	emollients / emulsifying agents / emulsion stabilisers / opacifiers / viscosity controlling agents	10	5,9
CETEARYL OCTANOATE	90411-68-0 59130-70-0	Hexanoic acid, 2-ethyl-, C16-18-alkyl esters	emollients	1	6,0
CETETH-20	9004-95-9	Poly(oxy-1, 2-ethanediy), a-hexadecyl-?-hydroxy-	emulsifying agents / surfactants	1	7,0

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CETRIMONIUM BROMIDE	57-09-0	Cetrimonium bromide	preservatives	1	9,0
CETRIMONIUM CHLORIDE	112-02-7	Cetrimonium chloride	preservatives	28	12,4
CETYL ACETATE	629-70-9	Hexadecyl acetate	emollients	1	10,0
CETYL ALCOHOL	36653-82-4	Hexadecan-1-ol	emollients / emulsifying agents / opacifiers / viscosity controlling agents	7	4,4
CHAMOMILLA RECUTITA	84082-60-0	Matricaria recutita, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Matricaria recutita, Composi	emollients	2	8,5
CHITOSAN	9012-76-4	Chitin, deacylated	biological additives	3	10,3
CHITOSAN FORMATE				4	5,8
CHITOSAN PCA	117522-93-7	Chitosan, pyrrolidonecarboxylic acid salt	humectants	4	6,5
CHLOROACETAMIDE	79-07-2	2-chloroacetamide	preservatives	1	22,0
CHLORPHENESIN	104-29-0	Chlorphenesin	preservatives	1	18,0
CHOLESTEROL	57-88-5	Cholesterol	emollients / emulsifying agents	4	5,5
CI 15510	633-96-5	Sodium 4-[(2-hydroxy-1-naphthyl)azo]benzenesulphonate; Benzene-sulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, Al-lake	cosmetic colorants	1	21,0
CI 15985	2783-94-0, 15790-07-5	Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate; Aluminum, 6-hydroxy-5-(4-sulfophenyl)azo-2-naphthalenesulfonic acid complex. This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 159	cosmetic colorants	2	21,0
CI 16035	25956-17-6	Disodium 6-hydroxy-5-[(2-methoxy-4-sulphonatom-tolyl)azo]naphthalene-2-sulphonate	cosmetic colorants	1	20,0
CI 16185	915-67-3, 12227-62-2	Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2, 7-disulphonate; Aluminum, 3-hydroxy-4-(4-sulfo-1-naphthalenyl)azo-2, 7-naphthalenedisulfonic acid complex. This substance is identified in the Colour Index by Colour Index Consti	cosmetic colorants	3	6,7
CI 17200	3567-66-6	Disodium 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate; 2, 7-naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(3-phenylazo)-, Al-lake	cosmetic colorants	4	15,3
CI 18050	3734-67-6	Disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate	cosmetic colorants	5	8,8
CI 19140	1934-21-0, 12225-21-7, 97375-39-8	Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate; Aluminum, 4, 5-dihydro-5-oxo-1-(4-sulfophenyl)-4-(4-sulfophenyl)azo-1H-pyrazole-3-carboxylic acid complex. This substance is identified in the Colour	cosmetic colorants	14	17,1
CI 42051	3536-49-0	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2', 4'-disulphonatobenzhydrylidene]cyclohexa-2, 5-dien-1-ylidene]diethylammonium], calcium salt	cosmetic colorants	1	6,0
CI 42090	2650-18-2, 3844-45-9,	Diammonio(ethyl)[4-[[4-[ethyl(3-sulphonatobenzyl)amino]phenyl](2-sulphonato-	cosmetic colorants	20	15,1

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	68921-42-6	phenyl)methylene]cyclohexa-2, 5-dien-1-ylidene)(3-sulphonatobenzyl)ammonium; Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cy			
CI 42520	3248-91-7	4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2, 5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride	cosmetic colorants	1	22,0
CI 42600	2390-59-2 (Was found)			1	18,0
CI 42735	6505-30-2	Hydrogen [4-[[4-(diethylamino)phenyl][4-[ethyl[(3-sulphonatobenzyl)amino]-o-tolyl]methylene]-3-methylcyclohexa-2, 5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt	cosmetic colorants	4	6,5
CI 47000	8003-22-3	1, 3-Isobenzofurandione, reaction products with methylquinoline and quinoline. This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 47000	cosmetic colorants	4	11,8
CI 47005	94891-32-4, 8004-92-0	Aluminum 2-(1, 3-dihydro-1, 3-dioxo-2H-inden-2-ylidene)-1, 2-dihydro-6, 7-quinolinedisulfonate complexes	cosmetic colorants	4	17,5
CI 60725	81-48-1	1-hydroxy-4-(p-toluidino)anthraquinone	cosmetic colorants	4	14,8
CI 60730	4430-18-6	Sodium 4-[(9, 10-dihydro-4-hydroxy-9, 10-dioxo-1-anthryl)amino]toluene-3-sulphonate	cosmetic colorants	2	14,0
CI 61565	128-80-3	1, 4-bis(p-tolylamino)anthraquinone	cosmetic colorants	5	12,4
CI 61570	4403-90-1	Disodium 2, 2'-(9, 10-dioxoanthracene-1, 4-diyl)diimino)bis(5-methylsulphonate)	cosmetic colorants	2	23,0
CI 69800	81-77-6	6, 15-dihydroanthrazine-5, 9, 14, 18-tetrone	cosmetic colorants	1	11,0
CI 77491	1309-37-1	Diiron trioxide	cosmetic colorants	2	8,0
CI 77492	1332-37-2	Iron oxide	cosmetic colorants	1	13,0
CI 77499	1317-61-9	Triiron tetraoxide	cosmetic colorants	1	9,0
CI 77891	13463-67-7	Titanium dioxide	cosmetic colorants	5	13,0
CI 77947	1314-13-2	Zinc oxide	cosmetic colorants	1	10,0
CINNAMIDOPROPYL TRIMONIUM CHLORIDE				1	14,0
CINNAMOMUM CAMPHORA				3	14,3
CITRIC ACID	77-92-9	Citric acid	buffering agents / chelating agents	14	12,9
CITRUS AURANTIFOLIA	89997-76-2	Citrus limetta, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Citrus limetta, Rutaceae	botanicals	1	16,0
CITRUS AURANTIUM DULCIS				7	13,9
CITRUS DULCIS	8028-48-6	Orange, sweet, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Citrus sinensis, Rutaceae	botanicals	10	19,6
CITRUS GRANDIS	90045-43-5	Grapefruit, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes,	botanicals	2	18,5

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
		terpene-free fractions, distillates, residues, etc., obtained from <i>Citrus paradisi</i> M., Rutaceae			
CITRUS LIMONUM	84929-31-7	Lemon, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Citrus limonum</i> , Rutaceae	botanicals	13	17,7
COCAMIDE DEA	68603-42-9 61791-31-9	Amides, coco, N, N-bis(hydroxyethyl)	emulsifying agents / emulsion stabilisers / surfactants / viscosity controlling agents	10	11,0
COCAMIDOPROPYL BETAINE	61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	surfactants	10	6,9
COCAMIDOPROPYL HYDROXSULTAINE	68139-30-0	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, N-dimethyl-3-sulfo-, N-coco acyl derivs., hydroxides, inner salts	surfactants	1	13,0
COCAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE		Phosphoric acid, triester with N-(2, 3-dihydroxypropyl)-N, N-dimethyl-3-[(1-oxococoalkyl)amino-1-propanaminium chloride	antistatic agents	1	18,0
COCO-BETAINE	68424-94-2	Betaines, coco alkylidimethyl	surfactants	1	6,0
COCO-CAPRYLATE / CAPRATE		Alcohols, coco, mixed esters with octanoic and decanoic acids	emollients	1	5,0
COCODIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN			antistatic agents	1	12,0
COCODIMONIUM HYDROXYPROPYL SILK AMINO ACIDS			antistatic agents / surfactants	1	10,0
COCOS NUCIFERA	8001-31-8	Coconut oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids capric, lauric, myristic, oleic and palmitic. (<i>Cocos nucifera</i> , Palmae); Extractives and their physically modified derivatives su	emollients / solvents; botanicals	4	7,8
COLLAGEN	9007-34-5	Collagens. A fibrous protein comprising one third of the total protein in mammalian organisms. It is a polypeptide containing three peptide chains and rich in proline and hydroxyproline	biological additives	3	6,3
COLLOIDAL SULFUR		Sulfur and gum arabic	antimicrobials	3	23,3
COMMIPHORA MYRRHA	84929-26-0	Commiphora myrrha, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Commiphora myrrha</i> , Burseraceae	botanicals	2	14,5
COPERNICIA CERIFERA				2	10,0
CORIANDRUM SATIVUM	84775-50-8	Coriander, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Coriandrum sativum</i> , Umbelliferae	botanicals	7	13,3
CORN FLOWER EXTRACTS				1	9,0
CUCUMIS SATIVUS	89998-01-6	Cucumber, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc.,	emollients	3	23,7

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		obtained from Cucumis sativus, Cucurbitaceae			
CUPRESSUS SEMPERVIRENS	84696-07-1	Cypress, Cupressus sempervirens, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Cupressus semper	botanicals	2	16,0
CYCLOHEXYLAMINE	108-91-8 (found)			3	12,0
CYCLOMETHICONE	69430-24-6	Octamethylcyclotetrasiloxane / decamethyl-cyclopentasiloxane	antistatic agents / emollients / humectants / solvents / viscosity controlling agents	24	6,3
CYCLOMETHICONE DIMETHICONOL				1	3,0
CYCLOPENTASILOXANE	541-02-6 (found)			15	5,9
CYMOPOGON CITRATUS				3	20,7
DAUCUS CAROTA	84929-61-3	Carrot, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Daucus carota, Umbelliferae	emollients	1	8,0
DEA-OLETH-10 PHOSPHATE	58855-63-3	Ethanol, 2, 2'-iminobis-, compd. with (Z)-, a-9-octadecenyl-, ?-hydroxypoly(oxy-1, 2-ethanediyl), phosphate	emulsifying agents / surfactants	1	12,0
DEA-OLETH-3 PHOSPHATE	58855-63-3	Ethanol, 2, 2'-iminobis-, compd. with (Z)-, a-9-octadecenyl-, ?-hydroxypoly(oxy-1, 2-ethanediyl), phosphate	emulsifying agents / surfactants	2	9,0
DECYL GLUCOSIDE	54549-25-6	Decyl D-glucoside	surfactants	2	14,0
DENATONIUM BENZOATE	3734-33-6	Denatonium benzoate	denaturants	5	8,2
DIAZOLIDINYL UREA	78491-02-8	1-[1, 3-bis(hydroxymethyl)-2, 5-dioxoimidazolidin-4-yl]-1, 3-bis(hydroxymethyl)urea	preservatives	13	15,2
DIISOBUTYL ADIPATE	141-04-8	Diisobutyl adipate	emollients	3	10,0
DIISOPROPYL ADIPATE	6938-94-9	Diisopropyl adipate	emollients	1	6,0
DIISOPROPYL DIMER DILINOLEATE			emollients	1	4,0
DIISOSTEAROYL TRIMETHYLOLPROPANE SILOXY SILICATE			additives	1	6,0
DIMETHICONAL				1	19,0
DIMETHICONE	9006-65-9 63148-62-9	Dimethicone	antifoaming agents / emollients	21	5,4
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / ALGAE / ALOE BARBADENSIS / CHAMOMILE / HENNA / JOJOBA / ROSEMARY / DIMETHICONE COPOLYOL				2	6,5
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / GLUTAMINE / TYROSINE / LEUCINE / CYSTEINE / GLYSINE / COMFREY / PLANTAIN / HYDROLYZED WHEAT				1	8,0

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PROTEIN / DIMETHICONE COPOLYOL					
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / WHITE GINGER / DIMETHICONE COPOLYOL				4	7,5
DIMETHICONE COPOLYOL	64365-23-7	Siloxanes and silicones, di-me, hydroxy-terminated, ethoxylated propoxylated	antistatic agents / emollients	82	7,5
DIMETHICONE COPOLYOL ACETATE			humectants	1	7,0
DIMETHICONE PROPYL PG-BETAINE			antistatic agents / surfactants	4	6,5
DIMETHICONOL	31692-79-2	Poly[oxy(dimethylsilyl)ane], a-hydro-?-hydroxy-	antifoaming agents / emollients	12	7,0
DIMETHYL ETHER	115-10-6	Dimethyl ether	propellants / solvents	27	1,9
DIMETHYL LAURAMINE ISOSTEARATE	70729-87-2	Isocostadecanoic acid, compound with N, N-dimethyldodecylamine (1:1)	emollients	1	3,0
DIPENTAERYTHRITYL HEXACAPRYLATE / HEXACAPRATE	68130-24-5	Decanoic acid, ester with 2, 2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1, 3-propanediol] octanoate pentanoate	emulsifying agents	1	9,0
DIPHENYL DIMETHICONE			emulsifying agents	1	7,0
DIPOTASSIUM GLYCYRRHIZATE	68797-35-3	a-d-Glucopyranosiduronic acid, (3á, 20á)-20-carboxy-11-oxo-30-norolean-12-en-3-yl 2-O-á-d-glucopyranuronosyl-, dipotassium salt	humectants	5	10,6
DIPROPYLENE GLYCOL	110-98-5	1, 1'-oxydipropan-2-ol	solvents	5	18,0
DISODIUM COCO-AMPHODIPROPIONATE	68604-71-7 86438-35-9	Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4, 5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	surfactants	1	3,0
DISODIUM EDTA	139-33-3	Disodium dihydrogen ethylenediaminetetraacetate	chelating agents / viscosity controlling agents	26	12,0
DISTEAROYLETHYL HYDROXYETHYLMONIUM METHOSULFATE			antistatic agents	1	9,0
DISTEARYLDIMONIUM CHLORIDE	107-64-2	Dimethyldioctadecylammonium chloride	antistatic agents	1	9,0
DMDM HYDANTOIN	6440-58-0	1, 3-bis(hydroxymethyl)-5, 5-dimethylimidazolidine-2, 4-dione	preservatives	27	12,0
DMHF	9065-13-8	Formaldehyde, polymer with 5, 5-dimethyl-2, 4-imidazolidinedione	antimicrobials / film formers	1	7,0
EDTA	60-00-4	Edetic acid	chelating agents	1	15,0
EMULSIFYING WAX NF				1	5,0
EQUISETUM ARVENSE	71011-23-9	Equisetum arvense, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Equisetum arvense, Equisetacea	botanicals	3	19,3
ESTER CAPRYLIC				1	2,0
ETHOXYDIGLYCOL	111-90-0	2-(2-ethoxyethoxy)ethanol	humectants / solvents	3	11,3
ETHYL ESTER OF HYDROLYZED SILK			antistatic agents	3	10,7
ETHYL ESTER OF PVM / MA COPOLYMER	25087-06-3	2-butanedioic acid (Z)-, monoethyl ester, polymer with methoxyethene	antistatic agents / film formers	3	3,0
ETHYLHEXYL METHOXY-CINNAMATE				7	8,3

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ETHYLHEXYL STEARATE				1	7,0
ETHYLPARABEN	120-47-8	Ethyl 4-hydroxybenzoate	preservatives	27	14,6
EUCALYPTUS GLOBULUS	84625-32-1	Eucalyptus globulus, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Eucalyptus globulus, Myrtace	botanicals	1	15,0
FACTOR 12				1	1,0
FLAVOUR				2	10,5
GLUCOSAMINE HCl	66-84-2	Glucosamine hydrochloride	antistatic agents	1	19,0
GLUTAMIC ACID	56-86-0, 617-65-2	Glutamic acid; DL-glutamic acid monohydrate	antistatic agents / humectants	1	19,0
GLYCERIN	56-81-5	Glycerol	denaturants / humectants / solvents	48	6,4
GLYCERYL STEARATE	31566-31-1	Stearic acid, monoester with glycerol	emollients / emulsifying agents	3	11,0
GLYCINE	56-40-6	Glycine	antistatic agents / buffering agents	1	12,0
GLYCINE SOJA	8001-22-7, 9010-10-0, 91770-67-1, 68513-95-1, 84776-91-0	Soybean oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, palmitic and stearic. (Soja hispida, Leguminosae)	emollients, botanicals	1	9,0
GLYCYRRHIZIC ACID	1405-86-3	Glycyrrhizic acid	humectants	1	14,0
GLYOXYLIC ACID	298-12-4	Glyoxylic acid	buffering agents	2	7,5
GUAR HYDROXYPROPYL-TRIMONIUM CHLORIDE	65497-29-2	Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride	antistatic agents / film formers / viscosity controlling agents	2	9,5
HAMAMELIS VIRGINIANA	84696-19-5	Hamamelis virginiana, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Hamamelis virginiana, Hamam	botanicals	3	16,3
HC RED NO. 3	354656	2-(4-amino-2-nitroanilino)ethanol	hair dyes	2	10,0
HC YELLOW NO. 5	56932-44-6	2-(2-amino-4-nitroanilino)ethanol	hair dyes	2	15,0
HELIANTHUS ANNUUS	84776-03-4	Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Helianthus annuus; Oils, sunflower, unsaponifiables fr	botanicals; emollients	1	6,0
HEXAMIDINE PARABEN	93841-83-9	p-hydroxybenzoic acid, compound with p, p'-(hexane-1, 6-diy)bis(oxy))bis(benzamidine) (2:1)	preservatives	1	11,0
HEXYLENE GLYCOL	107-41-5	2-methylpentane-2, 4-diol	solvents	2	5,0
HOPS EXTRACT				1	18,0
HYALURONIC ACID	9004-61-9	Hyaluronic acid	antistatic agents / humectants	1	14,0
HYDRASTIS CANADENSIS	84603-60-1	Golden seal, Hydrastis canadensis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Hydrastis	botanicals	1	16,0

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		cana			
HYDROABIETYL ALCOHOL	26266-77-3	[1R-(1a, 4a, 4b, 10a)]-dodecahydro-7-isopropyl-1, 4a-dimethylphenanthren-1-methanol	additives	2	5,0
HYDROFLUOROCARBON 152A	75-37-6	1, 1-difluoroethane	propellants	1	2,0
HYDROGEN PEROXIDE	7722-84-1	Hydrogen peroxide	oxidising agents	1	9,0
HYDROGENATED BUTYLENE / ETHYLENE / STYRENE COPOLYMER			emollients / viscosity controlling agents	1	7,0
HYDROGENATED CASTOR OIL	8001-78-3	Castor oil, hydrogenated	emollients / emulsifying agents / surfactants / viscosity controlling agents	7	6,3
HYDROGENATED COCONUT OIL	84836-98-6	Coconut oil, hydrogenated	emollients	1	1,0
HYDROGENATED ETHYLENE / PROPYLENE / STYRENE COPOLYMER			emollients / viscosity controlling agents	1	8,0
HYDROGENATED MICROCRYSTALLINE WAX	92045-76-6	Paraffin waxes and Hydrocarbon waxes, microcryst., hydrotreated. A complex combination of hydrocarbons obtained from residual oils by solvent crystallisation and treated with hydrogen in the presence of a catalyst. It consists predominantly of saturated s	viscosity controlling agents	3	5,7
HYDROGENATED ROSIN				2	5,0
HYDROGENATED TALLOWETH-60 MYRISTYL GLYCOL			emulsifying agents	2	9,0
HYDROLYZED COLLAGEN	92113-31-0 9015-54-7	Collagens, hydrolyzates. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of hoofs and horns composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along with small	antistatic agents / emollients / film formers / humectants	1	11,0
HYDROLYZED KERATIN	69430-36-0	Keratins, hydrolyzates. A biological material consisting predominantly of partially hydrolyzed keratin	antistatic agents / film formers / humectants	3	7,3
HYDROLYZED MUCOPOLYSACCHARIDES				1	12,0
HYDROLYZED PROTEIN				1	10,0
HYDROLYZED SILK	96690-41-4	Protein hydrolyzates, silk	antistatic agents / humectants	3	6,0
HYDROLYZED SOY PROTEIN	68607-88-5	Protein hydrolyzates, soya. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of soya composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along with smaller quan	antistatic agents / humectants	1	11,0
HYDROLYZED VEGETABLE PROTEIN	100209-45-8	Protein hydrolyzates, vegetable. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of mixed vegetables composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along	antistatic agents	1	7,0
HYDROLYZED WHEAT GLUTEN			botanicals	1	9,0
HYDROLYZED WHEAT PROTEIN	94350-06-8 70084-87-6	Protein hydrolyzates, wheat germ. Substance obtained by acidic, alkaline, or enzymatic	antistatic agents	12	10,0

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
		hydrolysis of wheat germ composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along with			
HYDROLYZED WHEAT PROTEIN / PVP CROSS-POLYMER				2	5,0
HYDROLYZED WHEAT STARCH			viscosity controlling agents	2	19,5
HYDROXYETHYL CETYLDIMONIUM PHOSPHATE	85563-48-0	Hexadecyl(2-hydroxyethyl)dimethylammonium dihydrogen phosphate	antistatic agents / surfactants	1	6,0
HYDROXYETHYLCELLULOSE	9004-62-0	Cellulose, 2-hydroxyethyl ether	binders / emulsion stabilisers / film formers / viscosity controlling agents	9	8,6
HYDROXYLATED LANOLIN	68424-66-8	Lanolin, hydroxylated	antistatic agents / emollients / emulsifying agents / film formers	2	10,0
HYDROXYPROPYL BISSTEARYLDIMONIUM CHLORIDE		1, 3-propanediaminium, 2-hydroxy-N, N'-bis(octadecyl)-N, N', N'-tetramethyl-, chloride	antistatic agents	1	9,0
HYDROXYPROPYL GUAR	68442-94-4 39421-75-5	Guar gum, 2-hydroxypropyl ether, depolymd	antistatic agents / binders / emulsion stabilisers / film formers / viscosity controlling agents	9	6,9
HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE			antistatic agents	1	6,0
HYDROXYPROPYL METHYLCELLULOSE	9004-65-3	Cellulose, 2-hydroxypropyl methyl ether	binders / emulsion stabilisers / film formers / viscosity controlling agents	4	4,0
HYDROXYPROPYLCELLULOSE	9004-64-2	Cellulose, 2-hydroxypropyl ether	binders / emulsion stabilisers / film formers / viscosity controlling agents	4	10,3
HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT PROTEIN			antistatic agents	2	16,5
HYDROXYSTEARIC ACID	106-14-9	12-hydroxystearic acid	emulsifying agents	1	3,0
HYPERICUM PERFORATUM	84082-80-4	St.-John's-wort, Hypericum perforatum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Hypericu	botanicals	1	19,0
I.P.M.				1	18,0
IMIDAZOLIDINYL UREA	39236-46-9	N, N"-methylenebis[N'-(3-(hydroxymethyl)-2, 5-dioximidazolidin-4-yl)urea]	preservatives	1	7,0
INOSITOL	87-89-8	Myo-inositol	antistatic agents / humectants	3	17,3
IODOPROPYNYL BUTYL-CARBAMATE	55406-53-6	3-iodo-2-propynyl butylcarbamate	preservatives	6	11,8
IRON OXIDE	1309-37-1, 1345-25-1, 1317-61-9	Diiron trioxide (CI 77489, 77491, 77492, 77499); Magnesium oxide (CI 77489, 77491, 77492, 77499); Triiron tetraoxide (CI 77489, 77491, 77492, 77499)	additives	4	10,5
ISOBUTANE	75-28-5	Isobutane	propellants	62	4,1

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
ISOBUTYL PARABEN	857259	isobutyl 4-hydroxybenzoate	preservatives	14	15,3
ISOCETETH-20			emulsifying agents	2	4,5
ISODODECANE	31807-55-3	isododecane	emollients	6	8,5
ISOHEXADECANE	4390-04-9 60908-77-2	2, 2, 4, 4, 6, 8, 8-heptamethylnonane	emollients / solvents	1	8,0
ISOLAURETH-6			emulsifying agents	1	17,0
ISOPENTANE	78-78-4	2-methylbutane	propellants / solvents	2	2,0
ISOPROPYL ALCOHOL	67-63-0	Propan-2-ol	antifoaming agents / solvents	20	7,9
ISOPROPYL C12-15-PARETH-9 CARBOXYLATE			emollients	1	8,0
ISOPROPYL LANOLATE	63393-93-1	Fatty acids, lanolin, iso-Pr esters	antistatic agents / emollients / emulsifying agents	1	5,0
ISOPROPYL MYRISTATE	110-27-0	isopropyl myristate	binders / emollients / solvents	10	6,1
ISOPROPYL STEARATE	112-10-7	isopropyl stearate	binders / emollients	2	6,0
ISOPROPYL PARABEN	4191-73-5	isopropyl 4-hydroxybenzoate	preservatives	2	20,0
ISOSTEARETH-10	52292-17-8	Poly(oxy-1, 2-ethanediyl), a-isoctadecyl-?-hydroxy-	emulsifying agents	1	6,0
ISOSTEARETH-20	52292-17-8	Poly(oxy-1, 2-ethanediyl), a-isoctadecyl-?-hydroxy-	emulsifying agents	9	7,8
ISOSTEARYL PALMITATE	72576-80-8	isoctadecyl palmitate	emollients	1	6,0
JUNIPERUS COMMUNIS	84603-69-0	Juniper, Juniperus communis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Juniperus communis,	botanicals	4	20,5
KAOLIN	1332-58-7	Naturally occurring substances, kaolin (CI 77004)	absorbents	3	9,7
KAWA EXTRACT				2	10,5
KERATIN	68238-35-7	Keratins. Natural, fibrous proteins occurring in vertebrates. They contain all of the common amino acids and are characterized by high cystine content	biological additives	1	12,0
KERATIN AMINO ACIDS		Keratins, hydrolyzates	antistatic agents	13	9,0
LACTAMIDE MEA	5422-34-4	N-2-hydroxyethyl lactamide	antistatic agents / humectants	2	14,5
LACTIC ACID	50-21-5	Lactic acid	buffering agents / humectants	1	17,0
LAMINARIA DIGITATE				1	15,0
LANETH-10	61791-20-6	Alcohols, lanolin, ethoxylated	emulsifying agents / viscosity controlling agents	1	15,0
LANOLIN	8006-54-0, 70321-63-0 8038-43-5	Lanolin. Fat-like substance derived from sheep wool. Contains a complex combination of esters and polyesters, consisting chiefly of cholesteryl and isocholesteryl esters of the higher fatty acids	antistatic agents / emollients / emulsifying agents	9	4,0
LANOLIN ALCOHOL	8027-33-6	Alcohols, lanolin. A complex combination of organic alcohols obtained by the hydrolysis of lanolin	antistatic agents / emollients / emulsifying agents	7	6,4
LANOLIN CERA	68201-49-0	Lanolin, wax. Wax obtained by fractionation of anhydrous lanolin	antistatic agents / emollients /	2	7,0

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
			emulsifying agents / film formers		
LAURETH-23	9002-92-0	Poly(oxy-1, 2-ethanediyl), a-dodecyl-?-hydroxy-	emulsifying agents / surfactants	5	8,4
LAURETH-4	5274-68-0	3, 6, 9, 12-tetraoxatetracosan-1-ol	emulsifying agents / surfactants	14	8,4
LAURETH-7	3055-97-8	3, 6, 9, 12, 15, 18, 21-heptaoxatritriacontanol	emulsifying agents / surfactants	3	10,3
LAURYL ALCOHOL	112-53-8	Dodecan-1-ol	emollients / emulsion stabilisers / viscosity controlling agents	1	11,0
LAURYL METHYL GLUCETH-10 HYDROXYPROPYLDIMONIUM CHLORIDE			antistatic agents	1	11,0
LAURYL DIMONIUM HYDROXYPROPYL HYDROLYZED COLLAGEN	118441-80-8	Lamanequat L	antistatic agents / emollients	2	11,5
LAVANDULA ANGUSTIFOLIA	90063-37-9	Lavender, <i>Lavandula angustifolia</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Lavandula angustifolia</i>	botanicals	4	13,0
LAWSONIA INERMIS	84988-66-9	<i>Lawsonia inermis</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Lawsonia inermis</i> , Lythraceae	biological additives	8	13,5
LECITHIN	8002-43-5	Lecithins. The complex combination of diglycerides of fatty acids linked to the choline ester of phosphoric acid	antistatic agents / emollients / emulsifying agents	1	10,0
LEMONGRASS EXTRACT				1	20,0
LINOLEAMIDOPROPYL ETHYLDIMONIUM ETHOSULFATE	99542-23-1	1-propanaminium, N-ethyl-N, N-dimethyl-3-[1-oxo-9, 12-octadecadienylamino]-, ethyl sulfate (salt)	antistatic agents	1	2,0
LINOLEAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE		1-propanaminium, 2, 3-dihydroxy-N, N-dimethyl-N-[3-(1-oxo-9, 12-octadecadienylamino)propyl]-, 3-phosphate triester, trichloride	antistatic agents	1	9,0
LINOLEIC ACID	60-33-3 (CIS)	Linoleic acid	antistatic agents / emollients	2	11,5
LINOLENIC ACID	463-40-1 (CIS)	Linolenic acid	antistatic agents / emollients	2	10,0
LUVISKOL				1	4,0
LYSINE	56-87-1, 70-54-2	L-lysine	antistatic agents	1	18,0
MAGNESIUM ALUMINUM SILICATE	1327-43-1	Silicic acid, aluminum magnesium salt	absorbents / opacifiers / viscosity controlling agents	2	16,0
MAGNESIUM CHLORIDE	7786-30-3	Magnesium chloride	additives	2	12,0
MAGNESIUM NITRATE	10377-60-3	Magnesium nitrate	additive	2	11,0
MALVA SYLVESTRIS	84082-57-5	Mallow, <i>Malva sylvestris</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Malva sylvestris</i>	botanicals	3	22,3

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
		sylvestris, Malva			
MEADOWFOAM SEED OIL				1	16,0
MELISSA OFFICINALIS	84082-61-1	Melissa officinalis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Melissa officinalis, Labiata	botanicals	3	21,7
METHACRYLOYL ETHYL BETAINE / ACRYLATES COPOLYMER	87435-35-6	Amersette	antistatic agents / film formers	3	2,7
METHYL GLUCETH-10	68239-42-9	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-, ether with methyl á-d-glucopyranoside (4:1)	emulsifying agents / humectants	2	9,0
METHYL GLUCETH-20	68239-42-9	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-, ether with methyl á-d-glucopyranoside (4:1)	humectants	4	10,8
METHYL HYDROGENATED ROSINATE	8050-15-5 8050-13-3	Resin acids and Rosin acids, hydrogenated, Me esters	film formers	1	5,0
METHYLAL	109-87-5	Dimethoxymethane	solvents	1	2,0
METHYLCHLOROISOTHIAZOLINONE	26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	preservatives	8	13,8
METHYLDIBROMO GLUTARONITRILE	35691-65-7	2-bromo-2-(bromomethyl)pentanedinitrile	preservatives	11	11,1
METHYLDIHYDROJASMONATE	2630-39-9	Methyl (1R-trans)-3-oxo-2-pentylcyclopentanecetate	additives	7	13,6
METHYLISOTHIAZOLINONE	2682-20-4	2-methyl-2H-isothiazol-3-one	preservatives	8	15,0
METHYLPARABEN	99-76-3	Methyl 4-hydroxybenzoate	preservatives	75	13,7
MICA	12001-26-2	Mica-group minerals (CI 77019)	opacifiers	16	10,6
MICROWAX 80				1	9,0
MINERAL OIL				3	3,7
MUSK KETONE			additives	1	2,0
MYRISTAMINE OXIDE	3332-27-2	N, N-dimethyltetradecylamine N-oxide	antistatic agents / emulsifying agents / surfactants	1	6,0
MYRISTOYL HYDROLYZED COLLAGEN	72319-06-3	Gelatins, hydrolyzates, myristoyl derivatives	antistatic agents / emollients / surfactants	2	11,0
NETTLE EXTRACT				1	19,0
NIACINAMIDE	98-92-0	Nicotinamide	additives	27	11,3
NIPASEPT SODIUM				1	5,0
NITROMETHANE	75-52-5	Nitromethane	anticorrosives	1	11,0
NONOXYNOL-10	27177-08-8 9016-45-9	29-(nonylphenoxy)-3, 6, 9, 12, 15, 18, 21, 24, 27-nonaoxanonacosanol	emulsifying agents	1	5,0
NONOXYNOL-14	9016-45-9	Poly(oxy-1, 2-ethanediyl), a-(nonylphenyl)-?-hydroxy-	emulsifying agents / surfactants	1	12,0
OCIMUM BASILICUM	84775-71-3	Ocimum basilicum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Ocimum basilicum, Labiatae	botanicals	2	15,0
OCTOXYNOL-40	9002-93-1	Poly(oxy-1, 2-ethanediyl), a-[4-(1, 1, 3, 3-tetramethylbutyl)phenyl]-?-hydroxy-	emulsifying agents / surfactants	1	16,0
OCTYL METHOXYCINNAMATE	5466-77-3	2-ethylhexyl 4-methoxycinnamate	U.V. absorbers	17	7,8

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OCTYL PALMITATE	29806-73-3	2-ethylhexyl palmitate	emollients	2	7,0
OCTYL SALICYLATE	118-60-5	2-ethylhexyl salicylate	U.V. absorbers	3	15,0
OCTYL STEARATE	22047-49-0	2-ethylhexyl stearate	emollients	1	7,0
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	70801-07-9		antistatic agents / film formers	30	4,0
OCTYLDODECANOL	5333-42-6	2-octyldodecan-1-ol	emollients / solvents	9	4,3
OCTYLDODECYL NEOPENTANOATE	125-496-22-2	Propanoic acid, 2, 2-dimethyl-, 2-octyldodecyl ester	emollients	3	9,0
OENOTHERA BIENNIS	90028-66-3	Evening primrose, <i>Oenothera biennis</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Oenothera bi</i>	botanicals; emollients	3	19,7
OLEA EUROPAEA	8001-25-0, 84012-27-1	Olive oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic and palmitic. (<i>Olea europaea</i> , Oleaceae)	emollients / solvents; botanicals	2	18,0
OLEAMIDOPROPYL PG-DIMONIUM CHLORIDE		1-propanaminium, 3-[(1-oxo-9-octadecenyl)amino]-N-(2, 3-dihydroxypropyl)-N, N-dimethyl-, chloride	antistatic agents	1	5,0
OLETH-10	9004-98-2 24871-34-9	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	emulsifying agents / surfactants	7	6,3
OLETH-2	9004-98-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	emulsifying agents / surfactants	2	7,0
OLETH-20	9004-98-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	surfactants	10	6,8
OLETH-3	9004-98-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	emulsifying agents	2	6,5
OLETH-3 PHOSPHATE	39464-69-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-(Z)-, phosphate	surfactants	2	7,0
OLETH-5	9004-98-2 5353-27-5	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	emulsifying agents	6	7,5
OLEYL ALCOHOL	143-28-2	(Z)-octadec-9-enol	emollients / emulsifying agents / opacifiers / viscosity controlling agents	2	9,5
ORANGE PEEL WAX		Waxes, orange peel	emollients	1	17,0
ORYZA SATIVA	9005-25-8, 68553-81-1, 90106-37-9, 90106-37-9	Starch. High-polymeric carbohydrate material usually derived from cereal grains such as corn, wheat and sorghum, and from roots and tubers such as potatoes and tapioca. Includes starch which has been pregelatinized by heating in the presence of water	absorbents / binders / viscosity controlling agents; emollients; botanicals	1	8,0
ORYZANOL	11042-64-1	(?)-oryzanol	antistatic agents	1	17,0
OZOKERITE	64742-33-2 8021-55-4	Hydrocarbon waxes (petroleum), chemically neutralized. A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists predominantly of saturated straight chain hydrocarbons having carbon numbers predominantly	binders / emulsion stabilisers / opacifiers / viscosity controlling agents	8	4,6
PABA	150-13-0	4-aminobenzoic acid	U.V. absorbers	2	9,5
PANAX GINSENG	84650-12-4	Ginseng, <i>Panax pseudoginseng</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils,	botanicals	10	14,7

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
		oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Panax pseudoginseng			
PANTHENOL	81-13-0	Dexpanthenol	antistatic agents	122	8,5
PANTHENYL ETHYL ETHER	667-83-4	(+)-N-(3-ethoxypropyl)-2, 4-dihydroxy-3, 3-dimethylbutyramide	antistatic agents	12	6,8
PANTHENYL HYDROXY-PROPYL STEARDIMONIUM CHLORIDE		1-octadecanaminium, N, N-dimethyl-N-[2-hydroxy-3-[2, 2-dimethyl-3-hydroxy-4-oxo-4-(3-hydroxypropyl)amino]butyl]-, chloride	antistatic agents	1	9,0
PARAFFIN	8002-74-2 64742-51-4	Paraffin waxes and Hydrocarbon waxes. A complex combination of hydrocarbons obtained from petroleum fractions by solvent crystallization (solvent deoiling) or by the sweating process. It consists predominantly of straight chain hydrocarbons having carbon	emollients / viscosity controlling agents	6	4,7
PARAFFINUM LIQUIDUM	8012-95-1	Paraffin oils. Liquid hydrocarbons from petroleum	antistatic agents / emollients / solvents	21	3,0
PERFUME				286	10,9
PCA	98-79-3	Pidolic acid	humectants	2	12,0
PEG / PPG 25 / 25 DIMETHICONE / ACRYLATES COPOLYMER				1	2,0
PEG / PPG-14 / 4 DIMETHICONE					6,0
PEG-10 SOYA STEROL			emulsifying agents	2	11,5
PEG-100 STEARATE	9004-99-3	Poly(oxy-1, 2-ethanediyl), a-(1-oxooctadecyl)-?-hydroxy-	surfactants	3	14,3
PEG-12	6790-09-6 25322-68-3	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33-undeca-oxapentatriacontane-1, 35-diol	humectants / solvents	2	1,5
PEG-15 COCOPOLYAMINE			antistatic agents / emulsifying agents	4	6,5
PEG-150 / STEARYL ALCOHOL / SMDI COPOLYMER				1	6,0
PEG-150 DISTEARATE	2595268	Poly(oxy-1, 2-ethanediyl), a-(1-oxooctadecyl)-?-(1-oxooctadecyl)oxy]-	emulsifying agents / surfactants / viscosity controlling agents	1	17,0
PEG-150 PENTAERYTHRITYL TETRASTEARATE			emulsifying agents	1	10,0
PEG-192 APRICOT KERNEL GLYCERIDES				10	11,4
PEG-2 DIMEADOWFOAM AMIDOETHYLMONIUM METHOSULFATE				1	5,0
PEG-2 OLEAMMONIUM CHLORIDE	18448-65-2	Bis(hydroxyethyl)methyloleylammonium chloride	antistatic agents / emulsifying agents / surfactants	10	8,3
PEG-20 STEARATE	9004-99-3	Poly(oxy-1, 2-ethanediyl), a-(1-oxooctadecyl)-?-hydroxy-	emulsifying agents / humectants / surfactants	3	12,3
PEG-25 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	5	4,4
PEG-25 PABA	116242-27-4		U.V. absorbers	7	9,1
PEG-32	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants / solvents	1	11,0
PEG-4	112-60-7 25322-68-3	3, 6, 9-trioxaundecane-1, 11-diol	humectants / solvents	2	4,5

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
PEG-40	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants / solvents	2	4,0
PEG-40 CASTOR OIL	61791-12-6	Castor oil, ethoxylated	emulsifying agents / surfactants	3	8,7
PEG-40 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	56	6,7
PEG-40 SORBITAN LANO-LATE	8036-77-9	G 1441	emulsifying agents	1	7,0
PEG-45 PALM KERNEL GLYCERIDES			emulsifying agents	2	9,5
PEG-45M	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants	1	14,0
PEG-5 OCTANOATE			emulsifying agents	1	8,0
PEG-5M	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	binders / emulsion stabilisers / viscosity controlling agents	1	19,0
PEG-6 CAPRYLIC / CAPRIC GLYCERIDES			emulsifying agents	1	13,0
PEG-6 COCAMIDE	61791-08-0	Fatty acids, coco, reaction products with ethanolamine, ethoxylated	emulsifying agents / surfactants	1	13,0
PEG-60	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants	1	2,0
PEG-60 ALMOND GLY-CERIDES			emulsifying agents	2	10,5
PEG-60 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	5	6,8
PEG-7 GLYCERYL COCOATE	68201-46-7 66105-29-1	Glycerides, coco mono-and di-, ethoxylated	emulsifying agents / surfactants	7	3,7
PEG-70 MANGO GLYCE-RIDES			emulsifying agents	10	12,4
PEG-75	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	binders / humectants / solvents	3	1,7
PEG-75 LANOLIN	61790-81-6 8039-09-6	Lanolin, ethoxylated	emollients / emulsifying agents / surfactants	3	7,7
PEG-75 SHEA BUTTER GLYCERIDES			emulsifying agents	3	12,3
PEG-8	5117-19-1 25322-68-3	3, 6, 9, 12, 15, 18, 21-heptaotricosane-1, 23-diol	humectants / solvents	3	3,7
PEG-8 BEESWAX			emulsifying agents	5	7,2
PEG-9 COCOGLYCERIDES				2	2,0
PEG-90M	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	binders / emulsion stabilisers / viscosity controlling agents	6	6,2
PELVETIA DIGITATA				1	14,0
PENTAERYTHRITYL TE-TRACAPRYLATE / CAPRATE	68441-68-9	Decanoic acid, mixed esters with octanoic acid and pentaerythritol	emollients	2	10,5
PENTANE	109-66-0	Pentane	propellants / solvents	7	3,0
PENTASODIUM PENTE-TATE	140-01-2	Pentasodium (carboxyla-tomethyl)iminobis(ethylenitriolo)tetraacetate	chelating agents	7	11,9
PERSEA GRATISSIMA	8024-32-6; 91770-40-0, 84695-98-7	Oils, avocado. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, and palmitic. (Persea americana, Lauraceae)	emollients; botanicals	4	11,0
PETROLATUM	2231335	Petrolatum. A complex combination of hydro-carbons obtained as a semi-solid from dewaxing	antistatic agents / emollients	26	1,4

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
		paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than C25			
PHENOXYETHANOL	122-99-6	2-phenoxyethanol	preservatives	58	13,1
PHENYL TRIMETHICONE	2116-84-9	1, 1, 5, 5, 5-hexamethyl-3-phenyl-3-[(trimethylsilyloxy)trisiloxane	antifoaming agents / antistatic agents / emollients	18	5,3
PHOSPHATE				1	6,0
PHYTANTRIOL	74563-64-7	3, 7, 11, 15-tetramethylhexadecane-1, 2, 3-triol	biological additives	1	10,0
POGOSTEMON CABLIN	84238-39-1	Patchouli, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Pogostemon cablin (Pogostemon patchoul	botanicals	2	19,0
POLYACRYLAMIDE	2594446	2-propenamamide, homopolymer	antistatic agents / binders / film formers	3	6,3
POLYACRYLAMIDO-METHYLPROPANE SULFONIC ACID			film formers	1	2,0
POLYBUTENE	9003-28-5	1- butene, homopolymer	binders / viscosity controlling agents	2	4,0
POLYISOBUTENE	9003-27-4	1- propene, 2-methyl-, homopolymer	binders / film formers / viscosity controlling agents	3	7,0
POLYLENE GLYCOL				1	7,0
POLYOXYL 40				1	5,0
POLYQUATERNIUM				1	5,0
POLYQUATERNIUM-10	81859-24-7 53568-66-4	Cellulose, 2-(2-hydroxy-3-(trimethylammonium)propoxy)ethyl ether, chloride	antistatic agents / film formers	6	9,5
POLYQUATERNIUM-11	53633-54-8	2-propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate	antistatic agents / film formers	44	6,0
POLYQUATERNIUM-16	95144-24-4		antistatic agents / film formers	20	7,7
POLYQUATERNIUM-37	26161-33-1		antistatic agents / film formers	2	3,0
POLYQUATERNIUM-4	111774-28-8		antistatic agents / film formers	25	8,1
POLYQUATERNIUM-46				5	3,0
POLYQUATERNIUM-7	26590-05-6	2-propen-1-aminium, N, N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamamide	antistatic agents / film formers	1	9,0
POLYSILICONE-11				1	5,0
POLYSILICONE-8				5	4,6
POLYSILOXAN				1	4,0
POLYSORBATE 20	9005-64-5	Sorbitan, monododecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	22	10,8
POLYSORBATE 40	9005-66-7	Sorbitan, monohexadecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	1	5,0
POLYSORBATE 60	9005-67-8	Sorbitan, mono-octadecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	3	5,7
POLYSORBATE 80	9005-65-6	Sorbitan, mono-9-octadecanoate, poly(oxy-1, 2-ethanediyl) derivs., (Z)-	emulsifying agents / surfactants	5	10,8

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POLYSTYRENE	9003-53-6	Benzene, ethenyl-, homopolymer	film formers	3	12,3
POLYVINYL ALCOHOL	9002-89-5	Ethenol, homopolymer	film formers / viscosity controlling agents	1	5,0
POLYVINYL CAPROLACTAM				2	2,0
POTASSIUM HYDROXIDE	1310-58-3	Potassium hydroxide	buffering agents	1	12,0
POTASSIUM SORBATE	24634-61-5 590-00-1	Potassium (E, E)-hexa-2, 4-dienoate	preservatives	8	12,8
POTATO FLAKES				1	12,0
POTATO STARCH MODIFIED				2	9,5
PPG-1 TRIDECETH-6			emollients	2	4,5
PPG-10 METHYL GLUCOSE ETHER	61849-72-7	Poly[oxy(methyl-1, 2-ethanediyl)], a-hydro-?-hydroxy-, ether with methyl α -D-glucopyranoside (4:1)	emollients	1	10,0
PPG-12-PEG-50 LANOLIN	68458-88-8	Lanolin, ethoxylated, propoxylated	emollients / emulsifying agents	1	15,0
PPG-20 METHYL GLUCOSE ETHER	61849-72-7	Poly[oxy(methyl-1, 2-ethanediyl)], a-hydro-?-hydroxy-, ether with methyl α -D-glucopyranoside (4:1)	antistatic agents / binders / humectants	1	6,0
PPG-3 METHYL ETHER	20324-33-8 37286-64-9	1-[2-(2-methoxy-1-methylethoxy)-1-methylethoxy]propan-2-ol	solvents	12	6,3
PPG-3 MYRISTYL ETHER	63793-60-2	Poly[oxy(methyl-1, 2-ethanediyl)], a-tetradecyl-?-hydroxy-	emollients / emulsifying agents	1	10,0
PPG-5-CETETH-20	9087-53-0 37311-01-6	Oxirane, methyl-, polymer with oxirane, hexadecyl ether	emulsifying agents / surfactants	8	7,4
PROLINE	147-85-3, 609-36-9	L-proline	antistatic agents	1	14,0
PROPANE	74-98-6	Propane	propellants	93	4,6
PROPYLENE GLYCOL	57-55-6	Propane-1, 2-diol	humectants / solvents	81	7,2
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	68583-51-7 58748-27-9 9062-04-8	Decanoic acid, mixed diesters with octanoic acid and propylene glycol	emollients	2	4,5
PROPYLPARABEN	94-13-3	Propyl 4-hydroxybenzoate	preservatives	52	15,2
PRUNUS DULCIS	90320-37-9, 8007-69-0	Almond, sweet, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Prunus amygdalus sativa, Rosaceae;	botanicals; emollients	1	2,0
PVM / MA DECADIENE CROSSPOLYMER	136392-67-1		binders	1	18,0
PVP	9003-39-8	2-pyrrolidinone, 1-ethenyl-, homopolymer	antistatic agents / binders / emulsion stabilisers / film formers	64	4,4
PVP / DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	30581-59-0		antistatic agents / binders / emulsion stabilisers / film formers	8	5,1
PVP / VA				2	9,0
PVP / VA COPOLYMER	25086-89-9	Acetic acid, ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	antistatic agents / binders / emulsion stabilisers / film formers	91	3,8

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PVP / VINYLCAPIROLACTUM / DMAA ACRYLATES COPOLYMER				1	3,0
PVP COPOLYMER				1	3,0
PYRUS MALUS	89957-48-2	Apple, Malus pumila, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Malus pumila, Rosaceae	botanicals	1	4,0
QUATERNIUM-26	68953-64-0	1-Propanaminium, 3-amino-N-(2-hydroxyethyl)-N,N-dimethyl-, N-mink-oil acyl derivs., chlorides	antistatic agents	1	9,0
QUATERNIUM-27	68122-86-1	Imidazolium compounds, 4, 5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl), Me sulfates	antistatic agents	3	10,3
QUATERNIUM-52	58069-11-7	Poly(oxy-1, 2-ethanediyl), a, a', a"-[(octadecylnitriilo)tri-2, 1-ethanediyl]tris(?-hydroxy)-, phosphate (1:1) (salt)	antistatic agents / surfactants	10	7,5
QUATERNIUM-70	68921-83-5	Dimethyl[3-[(1-oxooctadecyl)amino]propyl][2-oxo-2-(tetradecyloxy)ethyl]ammonium chloride	antistatic agents	1	8,0
QUATERNIUM-79 HYDROLYZED KERATIN			antistatic agents	1	13,0
QUATERNIUM-79 HYDROLYZED SILK			antistatic agents	4	9,3
QUATERNIUM-79 HYDROLYZED SOY PROTEIN			antistatic agents	1	7,0
QUATERNIUM-87				3	14,7
QUILLAIA SAPONARIA	68990-67-0	Quillaja saponaria, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Quillaja saponaria, Rosaceae	botanicals	2	11,5
RETINYL PALMITATE	79-81-2	Retinyl palmitate	additives	8	12,6
RHUS SUCCEDANEA	103798-70-5	Rhus succedanea, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Rhus succedanea, Anacardiaceae	emollients	1	4,0
RICINUS COMMUNIS	8001-79-4	Castor oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid ricinoleic. (Ricinus communis, Euphorbiaceae)	emollients	8	4,6
ROSA CANINA	84696-47-9, 84603-93-0	Rose, Rosa canina, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Rosa canina, Rosaceae	botanicals; emollients	1	13,0
ROSMARINUS OFFICINALIS	84604-14-8	Rosemary, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Rosmarinus officinalis, Labiatae	botanicals	7	17,0
SACCHAROMYCES / COPPER FERMENT				1	12,0
SACCHAROMYCES / IRON FERMENT				1	13,0
SACCHAROMYCES / MAGNESIUM FERMENT				1	11,0

INCI Name	CAS No.	Chemical Name as described in the INC list	Function	Is in number of products	Average ranking
SACCHAROMYCES / SILICON FERMENT				1	10,0
SACCHAROMYCES / ZINC FERMENT				1	14,0
SACCHARUM OFFICINARUM	91722-22-4	Sugarcane, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Saccharum officinarum, Gramineae	biological additives; botanicals	2	17,0
SALVIA OFFICINALIS	84082-79-1	Sage, Salvia officinalis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Salvia officinalis, Lab	botanicals	3	11,7
SANTALUM ALBUM	84787-70-2	Sandalwood, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Santalum album, Santalaceae	botanicals	2	18,0
SERENOA SERRULATA	84604-15-9	Sabal serrulatum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Sabal serrulatum, Palmae	botanicals	1	12,0
SERINE	56-45-1, 302-84-1, 312-84-5	L-serine	antistatic agents	1	15,0
SESAMUM INDICUM	8008-74-0	Oils, sesame. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, palmitic and stearic. (Sesamum indicum, Pedaliaceae)	emollients; botanicals	2	15,5
SHEA BUTTER				1	13,0
SILICA	7631-86-9 112945-52-5	Silicon dioxide	abrasives / absorbents / opacifiers / viscosity controlling agents	1	7,0
SILK AMINO ACIDS	96690-41-4	Protein hydrolyzates, silk	humectants	4	9,8
SIMETHICON				1	16,0
SIMETHICONE	8050-81-5		emollients	1	16,0
SODIUM ACRYLOYLDI-METHYLTAURATE COPOLYMER				1	7,0
SODIUM BENZOATE	532-32-1	Sodium benzoate	preservatives	10	12,0
SODIUM BISULFITE	7631-90-5	Sodium hydrogensulphite	preservatives	1	16,0
SODIUM CHLORIDE	7647-14-5	Sodium chloride	viscosity controlling agents	2	6,5
SODIUM COCOYL HYDROLYZED SOY PROTEIN			antistatic agents / surfactants	1	9,0
SODIUM HYDROXIDE	1310-73-2	Sodium hydroxide	buffering agents / denaturants	11	9,5
SODIUM HYDROXY-METHYLGLYCINATE	70161-44-3	Sodium N-(hydroxymethyl)glycinate	preservatives	2	9,5
SODIUM LAURYL SULFATE	151-21-3	Sodium dodecyl sulphate	denaturants / emulsifying agents / surfactants	4	7,3

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SODIUM METABISULFITE	7681-57-4	Disodium disulphite	preservatives	1	13,0
SODIUM METHYLPARABEN	5026-62-0	Sodium 4-(methoxycarbonyl)phenolate	preservatives	3	11,7
SODIUM PALMITATE	408-35-5	Sodium palmitate	emulsifying agents / surfactants / viscosity controlling agents	1	8,0
SODIUM PCA	28874-51-3, 54571-67-4	Sodium 5-oxo-L-prolinate	antistatic agents / humectants	1	10,0
SODIUM POLYSTYRENE SULFONATE	9003-59-2	Benzenesulfonic acid, ethenyl-, homopolymer, sodium salt	emulsion stabilisers / film formers / surfactants / viscosity controlling agents	2	3,0
SODIUM STYRENE / ACRYLATES COPOLYMER			film formers	1	12,0
SODIUM STYRENE / PEG-10 MALEATE / NONOXYNOL-10 MALEATE / ACRYLATES COPOLYMER			opacifiers	1	9,0
SOLUBLE COLLAGEN			antistatic agents / film formers / humectants	1	5,0
SORBIC ACID	110-44-1	Hexa-2, 4-dienoic acid	preservatives	5	12,2
SORBITAN OLEATE	1338-43-8	Sorbitan oleate	emulsifying agents	2	13,0
SORBITAN STEARATE	1338-41-6	Sorbitan stearate	emulsifying agents	1	7,0
SORBITOL	50-70-4	D-glucitol	humectants	14	9,0
SOYALECITHIN				1	1,0
SQUALENE	111-02-4	2, 6, 10, 15, 19, 23-hexamethyltetracos-2, 6, 10, 14, 18, 22-hexaene	antistatic agents / emollients	1	21,0
STEARALKONIUM CHLORIDE	122-19-0	Benzyltrimethyl(octadecyl)ammonium chloride	preservatives	1	13,0
STEARDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN			antistatic agents	1	19,0
STEARETH-10 ALLYL ETHER / ACRYLATES COPOLYMER			film formers	1	7,0
STEARETH-20	9005-00-9	Poly(oxy-1, 2-ethanediyl), a-octadecyl-?-hydroxy	emulsifying agents / surfactants	3	4,0
STEARETH-21	9005-00-9	Poly(oxy-1, 2-ethanediyl), a-octadecyl-?-hydroxy	emulsifying agents / surfactants	2	11,0
STEARIC ACID	57-11-4	Stearic acid	emulsifying agents / emulsion stabilisers	5	4,2
STEARYL ALCOHOL	112-92-5	Octadecan-1-ol	emollients / emulsion stabilisers / opacifiers / viscosity controlling agents	2	13,0
STEARYL CAPRYLATE	18312-31-7	Octadecyl octanoate	emollients	1	10,0
STEARYL HEPTANOATE	66009-41-4	Octadecyl heptanoate	emollients	1	9,0
STYRENE / ACRYLATES COPOLYMER			opacifiers	3	6,0
STYRENE / PVP COPOLYMER	25086-29-7	2-pyrrolidinone, 1-ethenyl-, polymer with ethenylbenzene	film formers / opacifiers	2	5,5

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SUCROSE	57-50-1	Sucrose	humectants	5	11,0
SULFUR	7704-34-9	Sulphur	antidandruffs agents / antistatic agents	1	15,0
TALLOWTRIMONIUM CHLORIDE	8030-78-2	Quaternary ammonium compounds, trimethyl-tallow alkyl, chlorides	antistatic agents / preservatives / surfactants	2	4,5
t-BUTYL ALCOHOL	75-65-0	2-methylpropan-2-ol	denaturants / solvents	1	8,0
TEA-CARBOMER			viscosity controlling agents	3	7,0
TETRAHYDROXYPROPYL ETHYLENEDIAMINE	102-60-3	1, 1', 1'', 1'''-ethylenedinitrilotetrapropan-2-ol	chelating agents	4	5,3
TETRASODIUM EDTA	64-02-8	Tetrasodium ethylenediaminetetraacetate	chelating agents	22	12,9
THIAMINE HCl	67-03-8	Thiamine hydrochloride	biological additives	3	25,3
THREONINE	72-19-5, 80-68-2	L-threonine	antistatic agents	1	16,0
THYMUS HYDROLYSATE	91080-11-4	Protein hydrolyzates, thymus gland. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of thymus gland composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along w	biological additives	1	6,0
THYMUS VULGARIS	84929-51-1	Thyme, Thymus vulgaris, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Thymus vulgaris, Labiatae	botanicals	2	17,0
TITANIUM DIOXIDE	13463-67-7	Titanium dioxide (CI 77891)	opacifiers	9	11,7
TOCOPHEROL	59-02-9, 10191-41-0	α-tocopherol; 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-ol	antioxidants	16	11,4
TOCOPHERYL ACETATE	58-95-7, 7695-91-2	α-tocopheryl acetate, 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	antioxidants	10	12,1
TRIACETIN	102-76-1	Triacetin	antimicrobials / film formers / solvents	11	7,1
TRIBEHENIN	18641-57-1	Propane-1, 2, 3-triyl tridocosanoate	emollients	1	6,0
TRIDECETH-10	24938-91-8	Poly(oxy-1, 2-ethanediyl), a-tridecyl-?-hydroxy	emulsifying agents	2	9,5
TRIDECETH-12	24938-91-8	Poly(oxy-1, 2-ethanediyl), a-tridecyl-?-hydroxy	emulsifying agents / surfactants	14	12,7
TRIDECETH-3 CARBOXYLIC ACID	24938-91-8 68412-55-5		surfactants	1	9,0
TRIDECETH-7	24938-91-8		emulsifying agents	2	11,5
TRIDECETH-9	24938-91-8	Poly(oxy-1, 2-ethanediyl), a-tridecyl-?-hydroxy	emulsifying agents	1	7,0
TRIDECYL STEARATE	31556-45-3	Tridecyl stearate	emollients	1	8,0
TRIETHANOLAMINE	102-71-6	2, 2', 2''-nitritoltriethanol	buffering agents	60	6,7
TRIETHYL CITRATE	77-93-0	Triethyl citrate	antioxidants / deodorant agents / solvents	11	8,3
TRIETHYLENE GLYCOL	112-27-6	2, 2'-(ethylenedioxy)diethanol	solvents	1	17,0
TRILAURETH-4 PHOSPHATE	31800-90-5	Poly(oxy-1, 2-ethanediyl), a, a', a''-phosphinylidynetris-?-(dodecyloxy)-	emulsifying agents	1	7,0

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TRIMETHYLOLPROPANE				1	1,0
TRIMETHYLSILYLAMODIMETHICONE			antistatic agents / emollients	1	15,0
TRITICUM SATIVUM VULGARE				1	17,0
TRITICUM VULGARE	9005-25-8, 84012-44-2, 93384-22-6, 130498-22-5, 68917-73-7	Starch. High-polymeric carbohydrate material usually derived from cereal grains such as corn, wheat and sorghum, and from roots and tubers such as potatoes and tapioca. Includes starch which has been pregelatinized by heating in the presence of water; Oi	absorbents / viscosity controlling agents; botanicals, emollients	6	13,8
TUMERIC ROOT				1	7,0
TUSSILAGO FARFARA	84625-50-3	Tussilago farfara, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Tussilago farfara, Compositae	botanicals	3	20,3
URTICA DIOICA	84012-40-8	Urtica dioica, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Urtica dioica, Urticaceae	botanicals	2	15,0
VA / CROTONATES / NEODECANOATE COPOLYMER				1	6,0
VA / CROTONATES / VINYL NEODECANOATE COPOLYMER	58748-38-2 55353-21-4	Neodecanoic acid, ethenyl ester, polymer with 2-butenic acid and ethenyl acetate	antistatic agents / film formers	8	4,8
VA / CROTONATES COPOLYMER	25609-89-6	2-butenic acid, polymer with ethenyl acetate	antistatic agents / binders / film formers	10	4,6
VA / CROTONIC ACID COPOLYMER				1	4,0
VA / VINYL BUTYL BENZOATE / CROTONATES COPOLYMER			film formers	13	3,1
VACCINIUM MYRTILLUS	84082-34-8	Vaccinium myrtillus, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Vaccinium myrtillus, Ericaceae	botanicals	2	16,0
VINYL CAPROLACTAM / PVP / DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	102972-64-5		film formers	3	7,3
VINYLPYRROLIDONE	25086-89-9			1	16,0
VISCOCITY CONTROLLING AGENT				1	2,0
VISCUM ALBUM	84929-55-5	Viscum album, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Viscum album, Loranthaceae	botanicals	3	21,3
VITIS VINIFERA	84929-27-1, 8024-22-4	Grape, red, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Vitis vinifera, Vitaceae; Extractives	botanicals; emollients	1	3,0

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WATERCRESS EXTRACT				1	3,0
WHEAT AMINO ACIDS		Amino acids, wheat	botanicals	1	8,0
WHEAT GERM EXTRACT				1	8,0
WHEAT GERM GLYCE- RIDES	68990-07-8	Glycerides, wheat germ-oil mono-, di- and tri-	emollients	1	14,0
WHEAT GERMAMIDOPRO- PYLAMINE OXIDE		Amides, wheat germ, N-(3-dimethylaminopropyl)- N-oxides	antistatic agents / surfactants	1	7,0
WHEAT GERMAMIDOPRO- PYLDIMONIUM HYDRO- XYPROPYL HYDROLYZED WHEAT PROTEIN			antistatic agents	2	11,5
WHEATGERMAMIDOPRO- PYL ETHYLDIMONIUM ETHOSULFATE		1-propanaminium, N-ethyl-N, N-dimethyl-3- amino-, N-wheat germ acyl derivs., ethyl sulfates	antistatic agents	1	7,0
XANTHAN GUM	11138-66-2	Xanthan gum	binders / emulsion stabilisers / viscosity controlling agents	2	9,0
YOGURT	2246366	Naturally occurring substances, milk prepa- rations, yogurt	biological additives	2	9,0
ZINGIBER OFFICINALIS	84696-15-1	Ginger, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Zingiber officinalis, Zingiberaceae	botanicals	2	18,0

List of constituents in hairstyling products divided on the product type

This enclosure shows the chemical substances in the hairstyling products divided on the product type. That means which substances are in hairspray, gel, mousse etc. At the same time the enclosure shows with which average ranking substances form a part of the mentioned product type, that means in which relative concentration on average the substances appear.

Cream

INCI Name	Number of times with the INCI Name	Average ranking
PERFUME	18	15,9
AQUA	18	1,3
METHYLPARABEN	12	16,0
PROPYLENE GLYCOL	11	7,1
PROPYLPARABEN	9	18,2
PVP	7	6,0
TRIETHANOLAMINE	7	9,0
PHENOXYETHANOL	6	16,8
GLYCERIN	6	7,0
PVP / VA COPOLYMER	5	3,0
CARBOMER	5	7,0
TETRASODIUM EDTA	4	16,0
BENZOPHENONE-4	4	12,8
DIMETHICONE COPOLYOL	4	7,8
PARAFFINUM LIQUIDUM	4	5,0
PEG-40 HYDROGENATED CASTOR OIL	4	6,8
ALCOHOL DENAT.	4	2,5
DIAZOLIDINYL UREA	3	13,7
POLYQUATERNIUM-11	3	8,7
CYCLOMETHICONE	3	4,0
PANTHENOL	3	10,7
ACRYLATES / C10-30 ALKYL ACRYLATE CROSSPOLYMER	3	14,3
CETEARYL ALCOHOL	3	3,7
PERSEA GRATISSIMA	3	8,7
DMDM HYDANTOIN	3	11,7
DIMETHICONE	3	4,3
BUTYLPARABEN	3	18,7
DIMETHICONOL	3	5,3
OZOKERITE	3	6,3
CETRIMONIUM CHLORIDE	2	16,5
COMMIPHORA MYRRHA	2	14,5
ETHYLPARABEN	2	20,0
CI 19140	2	25,0
PEG-40 CASTOR OIL	2	10,5
PETROLATUM	2	5,5
PEG-8 BEESWAX	2	9,0
DISODIUM EDTA	2	9,5
CAPRYLIC / CAPRIC TRIGLYCERIDE	2	8,0
GLYCERYL STEARATE	2	9,0
LAURETH-4	2	6,5

INCI Name	Number of times with the INCI Name	Average ranking
BEHENTRIMONIUM METHOSULFATE	2	10,5
CAMEL	2	25,0
AMINOMETHYL PROPANOL	2	13,5
OCTYLDODECANOL	2	6,0
OLETH-20	2	7,5
HYDROXYETHYLCELLULOSE	2	9,5
JUNIPERUS COMMUNIS	1	20,0
HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	1	6,0
HYDROXYPROPYLCELLULOSE	1	10,0
ISOSTEARYL PALMITATE	1	6,0
HYPERICUM PERFORATUM	1	19,0
ISOPROPYL ALCOHOL	1	7,0
HYDROXYPROPYL GUAR	1	14,0
EMULSIFYING WAX NF	1	5,0
ETHYLHEXYL METHOXYCINNAMATE	1	9,0
HYDROABIETYL ALCOHOL	1	8,0
EUCALYPTUS GLOBULUS	1	15,0
KAWA EXTRACT	1	17,0
HYDRASTIS CANADENSIS	1	16,0
FACTOR 12	1	1,0
KAOLIN	1	16,0
GLYCYRRHIZIC ACID	1	14,0
HYDROLYZED WHEAT PROTEIN	1	18,0
BUTANE	1	3,0
CUPRESSUS SEMPERVIRENS	1	16,0
CETEARETH-20	1	5,0
CERA ALBA	1	3,0
CARNAUBA	1	10,0
CANANGA ODORATA	1	21,0
CALCIUM HYDROXIDE	1	5,0
CETEARETH-6	1	8,0
C12-15 ALKYL BENZOATE	1	8,0
CETYL ALCOHOL	1	4,0
BERTHOLLETIA EXCELSA	1	6,0
BEHENTRIMONIUM CHLORIDE	1	10,0
AMODIMETHICONE	1	17,0
ALTHEA OFFICINALIS	1	16,0
ALCOHOL	1	2,0
ACTINIDIA CHINENSIS	1	25,0
CALCIUM CARBONATE	1	6,0
COCAMIDOPROPYL BETAINE	1	6,0
DEA-OLETH-3 PHOSPHATE	1	11,0
DEA-OLETH-10 PHOSPHATE	1	12,0
CYCLOPENTASILOXANE	1	2,0
LACTAMIDE MEA	1	15,0
COPERNICIA CERIFERA	1	10,0
OCIMUM BASILICUM	1	15,0
CETEARETH-25	1	10,0
COCAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE	1	18,0
DIPENTAERYTHRITYL HEXACAPRYLATE / HEXACAPRATE	1	9,0
CITRUS LIMONUM	1	24,0
CITRUS DULCIS	1	26,0
CITRIC ACID	1	11,0
CI 60725	1	21,0
CI 42090	1	21,0
CI 15985	1	23,0
COCOS NUCIFERA	1	18,0
PVM / MA DECADIENE CROSSPOLYMER	1	18,0
POTASSIUM SORBATE	1	14,0
SODIUM LAURYL SULFATE	1	8,0

INCI Name	Number of times with the INCI Name	Average ranking
SODIUM HYDROXYMETHYLGLYCINATE	1	8,0
SODIUM CHLORIDE	1	5,0
SODIUM BENZOATE	1	14,0
SESAMUM INDICUM	1	20,0
SANTALUM ALBUM	1	18,0
SODIUM STYRENE / PEG-10 MALEATE / NONOXYNOL-10 MALEATE / ACRYLATES COPOLYMER	1	9,0
PVP / DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	1	6,0
SORBITAN OLEATE	1	15,0
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	1	6,0
PROPANE	1	4,0
PPG-5-CETETH-20	1	10,0
PPG-3 MYRISTYL ETHER	1	10,0
PPG-10 METHYL GLUCOSE ETHER	1	10,0
PPG-1 TRIDECETH-6	1	5,0
MICA	1	12,0
ROSA CANINA	1	13,0
THYMUS VULGARIS	1	17,0
TRILAURETH-4 PHOSPHATE	1	7,0
TRIDECYL STEARATE	1	8,0
TRIDECETH-7	1	9,0
TRIDECETH-3 CARBOXYLIC ACID	1	9,0
TRIDECETH-12	1	22,0
TRIBEHENIN	1	6,0
TOCOPHERYL ACETATE	1	6,0
SODIUM PALMITATE	1	8,0
TITANIUM DIOXIDE	1	13,0
POLYVINYL CAPROLACTAM	1	2,0
STYRENE / PVP COPOLYMER	1	9,0
STYRENE / ACRYLATES COPOLYMER	1	7,0
STEARYL ALCOHOL	1	9,0
STEARIC ACID	1	4,0
STEARDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN	1	19,0
SOYALECITHIN	1	1,0
SORBITOL	1	4,0
TOCOPHEROL	1	22,0
NIACINAMIDE	1	20,0
POTATO STARCH MODIFIED	1	12,0
ORYZANOL	1	17,0
ORYZA SATIVA	1	8,0
ORANGE PEEL WAX	1	17,0
OLETH-5	1	9,0
OLETH-3	1	8,0
OLEA EUROPAEA	1	19,0
PEG-100 STEARATE	1	12,0
WHEAT GERMAMIDOPROPYLDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN	1	13,0
PEG-12	1	2,0
ACHILLEA MILLEFOLIUM	1	20,0
METHYLDIBROMO GLUTARONITRILE	1	15,0
METHACRYLOYL ETHYL BETAINE / ACRYLATES COPOLYMER	1	3,0
MAGNESIUM ALUMINUM SILICATE	1	14,0
LECITHIN	1	10,0
LAURETH-23	1	6,0
LANOLIN CERA	1	4,0
OCTYL PALMITATE	1	12,0
PEG-90M	1	4,0
POLYSTYRENE	1	13,0
POLYSORBATE 20	1	2,0
POLYQUATERNIUM-4	1	13,0

INCI Name	Number of times with the INCI Name	Average ranking
POLYQUATERNIUM-37	1	4,0
POLYQUATERNIUM-10	1	7,0
POLYACRYLAMIDOMETHYLPROPANE SULFONIC ACID	1	2,0
POGOSTEMON CABLIN	1	19,0
PANAX GINSENG	1	21,0
PENTASODIUM PENTETATE	1	11,0
LANOLIN	1	2,0
PEG-70 MANGO GLYCERIDES	1	19,0
PEG-6 CAPRYLIC / CAPRIC GLYCERIDES	1	13,0
PEG-45M	1	14,0
PEG-25 PABA	1	7,0
PEG-20 STEARATE	1	13,0
PEG-192 APRICOT KERNEL GLYCERIDES	1	18,0
PEG-150 PENTAERYTHRITYL TETRASTEARATE	1	10,0
PHENYL TRIMETHICONE	1	2,0

Gel

INCI Name	Number of times with the INCI Name	Average ranking
AQUA	75	1,1
CARBOMER	56	5,2
PERFUME	54	11,1
TRIETHANOLAMINE	43	6,0
ALCOHOL DENAT.	31	2,0
PVP	31	3,2
PANTHENOL	28	8,0
PVP / VA COPOLYMER	27	2,8
DIMETHICONE COPOLYOL	22	7,5
PROPYLENE GLYCOL	21	6,7
PEG-40 HYDROGENATED CASTOR OIL	20	6,1
METHYLPARABEN	20	13,3
PHENOXYETHANOL	20	11,5
BENZOPHENONE-4	20	11,4
POLYQUATERNIUM-11	15	5,7
CI 42090	14	15,1
GLYCERIN	13	5,9
TETRASODIUM EDTA	13	11,9
DMDM HYDANTOIN	10	10,2
NIACINAMIDE	10	10,8
AMINOMETHYL PROPANOL	9	6,1
DISODIUM EDTA	9	11,7
ETHYLPARABEN	9	14,6
PROPYLPARABEN	9	16,3
BENZYL ALCOHOL	9	8,2
CI 19140	8	15,4
SODIUM HYDROXIDE	8	8,0
ALCOHOL	7	3,6
BUTYLPARABEN	7	14,9
PENTASODIUM PENTETATE	6	12,0
ACRYLATES / C10-30 ALKYL ACRYLATE CROSSPOLYMER	6	5,0
CITRIC ACID	6	10,5
HYDROXYPROPYL GUAR	6	5,8
CETRIMONIUM CHLORIDE	6	11,2
POLYQUATERNIUM-4	5	6,4
ISOSTEARETH-20	5	8,4
PVP / DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	5	4,8

INCI Name	Number of times with the INCI Name	Average ranking
PANTHENYL ETHYL ETHER	4	5,5
IODOPROPYNYL BUTYLCARBAMATE	4	10,8
ALOE BARBADENSIS	4	5,8
POLYSORBATE 20	4	8,0
DIMETHICONE	4	3,8
KERATIN AMINO ACIDS	4	7,5
TETRAHYDROXYPROPYL ETHYLENEDIAMINE	4	5,3
TOCOPHEROL	4	10,0
HYDROLYZED WHEAT PROTEIN	4	9,5
CI 18050	4	9,8
SORBITOL	4	6,8
RETINYL PALMITATE	4	11,5
PANAX GINSENG	4	16,5
HYDROXYETHYLCELLULOSE	4	5,3
HYDROXYPROPYL METHYLCELLULOSE	4	4,0
PEG-90M	4	5,8
PEG-70 MANGO GLYCERIDES	3	13,3
MICA	3	10,3
DIAZOLIDINYL UREA	3	16,7
METHYLISOTHIAZOLINONE	3	13,0
METHYLDIHYDROJASMONATE	3	12,7
PEG-192 APRICOT KERNEL GLYCERIDES	3	12,3
METHYLDIBROMO GLUTARONITRILE	3	9,7
METHYLCHLOROISOTHIAZOLINONE	3	11,3
ISOPROPYL ALCOHOL	3	4,0
HYDROXYPROPYLCELLULOSE	3	10,3
HYDROGENATED CASTOR OIL	3	5,3
PEG-15 COCOPOLYAMINE	3	7,7
CI 42735	3	6,7
CITRUS DULCIS	3	20,3
SODIUM METHYLPARABEN	3	11,7
BUTYLENE GLYCOL	3	6,3
SODIUM BENZOATE	3	11,7
TEA-CARBOMER	3	7,0
TRITICUM VULGARE	3	14,0
CI 47005	3	16,7
CITRUS AURANTIUM DULCIS	3	10,3
POLYQUATERNIUM-46	3	3,0
CITRUS LIMONUM	3	18,3
CORIANDRUM SATIVUM	3	12,7
VA / CROTONATES COPOLYMER	3	3,0
ACTINIDIA CHINENSIS	3	19,3
HC RED NO. 3	2	10,0
2-NITRO-p-PHENYLENEDIAMINE	2	11,0
ANTHEMIS NOBILIS	2	15,5
ISOBUTYLPARABEN	2	15,5
BASIC BLUE 9	2	18,5
BASIC BLUE 99	2	14,0
BASIC BROWN 16	2	16,0
BASIC BROWN 17	2	17,0
AMODIMETHICONE	2	9,0
BASIC RED 2	2	19,5
BASIC RED 76	2	13,0
BASIC VIOLET 14	2	20,5
BASIC YELLOW 57	2	12,0
HC YELLOW NO. 5	2	15,0
CYMBOPOGON CITRATUS	2	18,5
CAMELIA OLEIFERA	2	11,5
CETEARETH-25	2	6,5
CI 16185	2	7,0
COCAMIDOPROPYL BETAINE	2	6,0

INCI Name	Number of times with the INCI Name	Average ranking
CUCUMIS SATIVUS	2	21,5
CYCLOMETHICONE	2	12,5
DENATONIUM BENZOATE	2	3,0
BENZOPHENONE-3	2	18,0
ROSMARINUS OFFICINALIS	2	20,5
TRIDECETH-12	2	13,5
TOCOPHERYL ACETATE	2	10,0
OENOTHERA BIENNIS	2	17,5
PABA	2	9,5
METHYL GLUCETH-20	2	12,5
MELISSA OFFICINALIS	2	19,5
POLYQUATERNIUM-10	2	12,0
MAGNESIUM CHLORIDE	2	12,0
POLYSTYRENE	2	12,0
SODIUM LAURYL SULFATE	2	7,0
POTASSIUM SORBATE	2	9,0
PEG-75 LANOLIN	2	6,0
LAWSONIA INERMIS	2	18,0
XANTHAN GUM	2	9,0
LAVANDULA ANGUSTIFOLIA	2	9,5
PEG-40	2	4,0
MAGNESIUM NITRATE	2	11,0
BUTANE	1	2,0
BISABOOL	1	14,0
SODIUM HYDROXYMETHYLGLYCINATE	1	11,0
BUXUS CHINENSIS	1	17,0
CALCIUM PANTOTHENATE	1	16,0
BETAINE	1	9,0
CALENDULA OFFICINALIS	1	6,0
SODIUM BISULFITE	1	16,0
SODIUM POLYSTYRENE SULFONATE	1	4,0
SESAMUM INDICUM	1	11,0
CARBOMER 940	1	3,0
CEREUS GRANDIFLORUS	1	12,0
CETEARYL ALCOHOL	1	2,0
RICINUS COMMUNIS	1	11,0
CETYL ALCOHOL	1	3,0
CHITOSAN PCA	1	7,0
QUILLAIA SAPONARIA	1	11,0
CI 17200	1	15,0
QUATERNIUM-79 HYDROLYZED SOY PROTEIN	1	7,0
CAMELIA SINENSIS	1	7,0
TRIETHYLENE GLYCOL	1	17,0
2-OLEAMIDO-1,3-OCTADECANEDIOL	1	5,0
ACETAMIDE MEA	1	9,0
ACRYLATES / PVP COPOLYMER	1	3,0
ACRYLATES / STEARETH-20 METHACRYLATE COPOLYMER	1	11,0
WATERCRESS EXTRACT	1	3,0
AESCLUSUS HIPPOCASTANUM	1	10,0
VITIS VINIFERA	1	3,0
VISCUM ALBUM	1	23,0
ALLANTOIN	1	9,0
VINYL CAPROLACTAM / PVP / DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	1	2,0
VA / CROTONIC ACID COPOLYMER	1	4,0
STYRENE / ACRYLATES COPOLYMER	1	5,0
TUSSILAGO FARFARA	1	22,0
SOLUBLE COLLAGEN	1	5,0
FLAVOUR	1	16,0
ASCORBIC ACID	1	21,0
TITANIUM DIOXIDE	1	13,0

INCI Name	Number of times with the INCI Name	Average ranking
THYMUS HYDROLYSATE	1	6,0
THIAMINE HCl	1	27,0
TALLOWTRIMONIUM CHLORIDE	1	5,0
SUCROSE	1	15,0
QUATERNIUM-52	1	10,0
STEARETH-10 ALLYL ETHER / ACRYLATES COPOLYMER	1	7,0
BEHENTRIMONIUM CHLORIDE	1	17,0
SORBIC ACID	1	18,0
AMMONIUM HYDROXIDE	1	5,0
HYDROLYZED SOY PROTEIN	1	11,0
CI 60725	1	18,0
EQUISETUM ARVENSE	1	21,0
ETHOXYDIGLYCOL	1	13,0
OLETH-20	1	5,0
VISCOACITY CONTROLLING AGENT	1	2,0
GLUCOSAMINE HCl	1	19,0
HAMAMELIS VIRGINIANA	1	18,0
OCTYL METHOXYCINNAMATE	1	10,0
NONOXYNOL-14	1	12,0
HYALURONIC ACID	1	14,0
NIPASEPT SODIUM	1	5,0
DIPROPYLENE GLYCOL	1	29,0
HYDROLYZED MUCOPOLYSACCHARIDES	1	12,0
DIPOTASSIUM GLYCYRRHIZATE	1	11,0
HYDROLYZED WHEAT STARCH	1	21,0
MALVA SYLVESTRIS	1	24,0
HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT PROTEIN	1	18,0
IMIDAZOLIDINYL UREA	1	7,0
LUVISKOL	1	4,0
LINOLENIC ACID	1	9,0
ZINGIBER OFFICINALIS	1	17,0
LINOLEIC ACID	1	13,0
JUNIPERUS COMMUNIS	1	20,0
KAWA EXTRACT	1	4,0
LAURETH-23	1	10,0
HYDROLYZED COLLAGEN	1	11,0
CITRUS GRANDIS	1	15,0
QUATERNIUM-27	1	7,0
CI 42520	1	22,0
CI 42600	1	18,0
PRUNUS DULCIS	1	2,0
INOSITOL	1	19,0
CI 60730	1	14,0
LAURYL ALCOHOL	1	11,0
CI 69800	1	11,0
CI 77491	1	6,0
CI 77891	1	14,0
CINNAMOMUM CAMPHORA	1	12,0
OLEYL ALCOHOL	1	13,0
POLYSORBATE 40	1	5,0
CI 42051	1	6,0
POLYQUATERNIUM-16	1	8,0
COLLOIDAL SULFUR	1	25,0
COPERNICIA CERIFERA	1	10,0
POLYOXYL 40	1	5,0
PHENYL TRIMETHICONE	1	4,0
PENTANE	1	3,0
PEG-8	1	3,0
PEG-60 HYDROGENATED CASTOR OIL	1	4,0
PANTHENYL HYDROXYPROPYL STEARDIMONIUM CHLORIDE	1	9,0
DIMETHICONE COPOLYOL ACETATE	1	7,0

INCI Name	Number of times with the INCI Name	Average ranking
DIMETHICONOL	1	7,0
POTASSIUM HYDROXIDE	1	12,0

Gel spray

INCI Name	Number of times with the INCI Name	Average ranking
AQUA	14	1,2
PERFUME	11	9,8
ALCOHOL DENAT.	9	1,7
PVP / VA COPOLYMER	6	4,0
PANTHENOL	6	7,8
PHENOXYETHANOL	5	13,4
PVP	5	3,0
BENZOPHENONE-4	5	10,0
TRIETHANOLAMINE	5	5,6
AMINOMETHYL PROPANOL	4	7,0
DIMETHICONE COPOLYOL	4	4,8
METHYLDIBROMO GLUTARONITRILE	3	12,0
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	3	3,7
CARBOMER	3	5,3
PROPYLENE GLYCOL	3	4,0
METHYLPARABEN	3	15,0
PEG-40 HYDROGENATED CASTOR OIL	3	9,0
DIMETHICONE	3	7,0
ALCOHOL	2	2,0
CI 19140	2	11,5
LAWSONIA INERMIS	2	15,5
POLYQUATERNIUM-11	2	3,5
POLYQUATERNIUM-46	2	3,0
DENATONIUM BENZOATE	2	11,5
CI 42090	2	10,5
PHENYL TRIMETHICONE	2	4,5
GLYCERIN	2	8,5
PROPYLPARABEN	2	17,5
QUATERNIUM-52	2	8,5
ETHYLPARABEN	2	18,0
BUTYLPARABEN	2	18,5
POLYSORBATE 20	2	6,5
DMDM HYDANTOIN	1	14,0
DIISOPROPYL ADIPATE	1	6,0
HEXYLENE GLYCOL	1	5,0
HAMAMELIS VIRGINIANA	1	12,0
ETHOXYDIGLYCOL	1	7,0
EDTA	1	15,0
GLYCINE SOJA	1	9,0
DISODIUM EDTA	1	11,0
DIMETHYL LAURAMINE ISOSTEARATE	1	3,0
DISODIUM COCOAMPHODIPROPIONATE	1	3,0
CI 42735	1	6,0
DIPROPYLENE GLYCOL	1	23,0
EQUISETUM ARVENSE	1	15,0
CAMELIA OLEIFERA	1	23,0
ACHILLEA MILLEFOLIUM	1	11,0
ACRYLATES COPOLYMER	1	3,0
ANTHEMIS NOBILIS	1	21,0

INCI Name	Number of times with the INCI Name	Average ranking
BENZOPHENONE-3	1	18,0
BENZYL ALCOHOL	1	18,0
BUTYLENE GLYCOL	1	9,0
BUXUS CHINENSIS	1	8,0
CITRUS AURANTIUM DULCIS	1	16,0
CALCIUM PANTOTHENATE	1	10,0
CYMBOPOGON CITRATUS	1	25,0
CI 16185	1	6,0
CI 18050	1	5,0
CI 61570	1	23,0
HYDROGEN PEROXIDE	1	9,0
CITRUS LIMONUM	1	17,0
COLLOIDAL SULFUR	1	19,0
CUCUMIS SATIVUS	1	28,0
CYCLOMETHICONE	1	2,0
C13-14 ISOPARAFFIN	1	8,0
SODIUM STYRENE / ACRYLATES COPOLYMER	1	12,0
KERATIN AMINO ACIDS	1	10,0
POLYSILOXAN	1	4,0
POLYVINYL CAPROLACTAM	1	2,0
PVP COPOLYMER	1	3,0
QUILLAIA SAPONARIA	1	12,0
RETINYL PALMITATE	1	14,0
ROSMARINUS OFFICINALIS	1	27,0
SACCHARUM OFFICINARUM	1	14,0
SALVIA OFFICINALIS	1	10,0
POLYLENE GLYCOL	1	7,0
SODIUM POLYSTYRENE SULFONATE	1	2,0
POLYACRYLAMIDE	1	7,0
t-BUTYL ALCOHOL	1	8,0
TETRASODIUM EDTA	1	16,0
THIAMINE HCl	1	21,0
TITANIUM DIOXIDE	1	11,0
TOCOPHEROL	1	8,0
TRITICUM VULGARE	1	11,0
TUSSILAGO FARFARA	1	16,0
VACCINIUM MYRTILLUS	1	13,0
VISCUM ALBUM	1	17,0
WHEAT GERMAMIDOPROPYLAMINE OXIDE	1	7,0
SODIUM HYDROXIDE	1	12,0
MELISSA OFFICINALIS	1	26,0
HYDROLYZED WHEAT PROTEIN / PVP CROSSPOLYMER	1	6,0
INOSITOL	1	13,0
ISOPROPYL ALCOHOL	1	3,0
ISOSTEARETH-10	1	6,0
ISOSTEARETH-20	1	8,0
JUNIPERUS COMMUNIS	1	22,0
ACER SACCHARINUM	1	15,0
LAURETH-7	1	9,0
ZINGIBER OFFICINALIS	1	19,0
POLYQUATERNIUM-10	1	8,0
MALVA SYLVESTRIS	1	18,0
HYDROLYZED WHEAT PROTEIN	1	10,0
METHYLCHLOROISOTHIAZOLINONE	1	19,0
METHYLISOTHIAZOLINONE	1	20,0
MICA	1	10,0
NIACINAMIDE	1	20,0
OCTYL METHOXYCINNAMATE	1	10,0
OENOTHERA BIENNIS	1	24,0
PANAX GINSENG	1	20,0
PEG-25 HYDROGENATED CASTOR OIL	1	11,0

INCI Name	Number of times with the INCI Name	Average ranking
PEG-60 HYDROGENATED CASTOR OIL	1	5,0
PEG-75 SHEA BUTTER GLYCERIDES	1	11,0
LINOLEAMIDOPROPYL ETHYLDIMONIUM ETHOSULFATE	1	2,0

Hairspray

INCI Name	Number of times with the INCI Name	Average ranking
PERFUME	91	9,1
ALCOHOL DENAT.	82	1,2
AMINOMETHYL PROPANOL	73	6,6
AQUA	57	3,7
PANTHENOL	51	7,9
BUTANE	42	2,7
DIMETHICONE COPOLYOL	39	7,3
PROPANE	38	4,2
ISOBUTANE	29	3,7
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	27	4,1
DIMETHYL ETHER	26	1,8
PROPYLENE GLYCOL	14	8,9
VA / VINYL BUTYL BENZOATE / CROTONATES COPOLYMER	13	3,1
CYCLOPENTASILOXANE	12	6,8
PPG-3 METHYL ETHER	12	6,3
PVP / VA COPOLYMER	12	3,2
TRIETHYL CITRATE	11	8,3
ACRYLATES / ACRYLAMIDE COPOLYMER	10	3,5
OCTYL METHOXYCINNAMATE	10	8,0
NIACINAMIDE	8	9,6
METHYLPARABEN	8	13,3
CYCLOMETHICONE	8	5,9
VA / CROTONATES / VINYL NEODECANOATE COPOLYMER	7	5,0
BENZOPHENONE-4	7	11,9
PHENYL TRIMETHICONE	7	7,0
PROPYLPARABEN	6	14,7
ETHYLHEXYL METHOXYCINNAMATE	6	8,2
TOCOPHEROL	6	10,8
PENTANE	6	3,0
ACRYLATES COPOLYMER	6	4,0
VA / CROTONATES COPOLYMER	6	5,3
BENZOPHENONE-3	6	12,8
PVP	6	5,5
CAMELIA SINENSIS	5	11,6
POLYQUATERNIUM-11	5	7,6
ALCOHOL	5	2,6
POLYSILICONE-8	5	4,6
GLYCERIN	4	6,5
KERATIN AMINO ACIDS	4	11,8
DIMETHICONE PROPYL PG-BETAINE	4	6,5
ALOE BARBADENSIS	4	5,5
PANTHENYL ETHYL ETHER	4	7,5
TOCOPHERYL ACETATE	4	17,8
POLYQUATERNIUM-4	3	4,3
POLYSORBATE 20	3	10,3
PHENOXYETHANOL	3	19,3
PEG-70 MANGO GLYCERIDES	3	8,7
PEG-60 HYDROGENATED CASTOR OIL	3	8,3

INCI Name	Number of times with the INCI Name	Average ranking
PEG-40 HYDROGENATED CASTOR OIL	3	8,3
2-AMINOBTANOL	3	9,3
PEG-192 APRICOT KERNEL GLYCERIDES	3	7,7
POTASSIUM SORBATE	3	16,7
CITRUS LIMONUM	3	14,3
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / WHITE GINGER / DIMETHICONE COPOLYOL	3	7,7
CYCLOHEXYLAMINE	3	12,0
MICA	3	7,7
DIISOBUTYL ADIPATE	3	10,0
CITRUS DULCIS	3	16,7
ETHYLPARABEN	3	16,3
AMMONIUM BENZOATE	3	11,0
QUATERNIUM-79 HYDROLYZED SILK	3	8,3
DMDM HYDANTOIN	3	13,7
ACRYLATES / DIMETHICONE COPOLYMER	3	6,0
ACTINIDIA CHINENSIS	3	15,3
SORBITOL	3	15,0
BUTYLPARABEN	3	17,0
SODIUM BENZOATE	3	9,3
CARBOMER	3	6,3
ISODODECANE	3	9,0
ETHYL ESTER OF HYDROLYZED SILK	2	10,5
CORIANDRUM SATIVUM	2	11,0
ETHYL ESTER OF PVM / MA COPOLYMER	2	3,5
COCAMIDOPROPYL BETAINE	2	8,5
TETRASODIUM EDTA	2	10,5
AMP-ISOSTEAROYL HYDROLYZED WHEAT PROTEIN	2	9,5
TRIETHANOLAMINE	2	13,5
PEG-25 PABA	2	7,0
OCTYL SALICYLATE	2	13,0
SILK AMINO ACIDS	2	11,5
ACRYLATES / t-BUTYLACRYLAMIDE COPOLYMER	2	3,0
MYRISTOYL HYDROLYZED COLLAGEN	2	11,0
DIAZOLIDINYL UREA	2	9,5
METHYLDIHYDROJASMONATE	2	15,0
2-OLEAMIDO-1,3-OCTADECANEDIOL	2	6,5
DIMETHICONE	2	7,5
TRITICUM VULGARE	2	15,0
BUTYL ESTER OF PVM / MA COPOLYMER	2	4,0
ISOPENTANE	2	2,0
PPG-5-CETETH-20	2	7,0
ISOBUTYLPARABEN	2	19,5
ISOPROPYL ALCOHOL	2	5,0
DISODIUM EDTA	2	11,5
BUTYLENE GLYCOL	2	13,5
ISOPROPYL STEARATE	2	6,0
ISOSTEARETH-20	2	5,5
CITRUS AURANTIUM DULCIS	2	14,0
DIPROPYLENE GLYCOL	2	14,5
METHACRYLOYL ETHYL BETAINE / ACRYLATES COPOLYMER	2	2,5
BISABOOL	2	6,5
BENZYL ALCOHOL	2	8,0
BETAINE	2	9,0
BHT	2	13,0
RETINYL PALMITATE	2	17,0
CI 42090	2	14,0
DIPOTASSIUM GLYCYRRHIZATE	2	9,0
LAVANDULA ANGUSTIFOLIA	2	16,5
CI 17200	2	13,0
LAURYL DIMONIUM HYDROXYPROPYL HYDROLYZED	2	11,5

INCI Name	Number of times with the INCI Name	Average ranking
COLLAGEN		
ETHYLHEXYL STEARATE	1	7,0
EQUISETUM ARVENSE	1	22,0
GLUTAMIC ACID	1	19,0
ETHOXYDIGLYCOL	1	14,0
DIPHENYL DIMETHICONE	1	7,0
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / GLUTAMINE / TYROSINE / LEUCINE / CYSTEINE / GLYSINE / COMFREY / PLANTAIN / HYDROLYZED WHEAT PROTEIN / DIMETHICONE COPOLYOL	1	8,0
CETEARYL OCTANOATE	1	6,0
ACETAMIDE MEA	1	7,0
ACETONE	1	3,0
ACHILLEA MILLEFOLIUM	1	12,0
ALANINE	1	13,0
AMODIMETHICONE	1	3,0
ARGININE	1	17,0
BENZOPHENONE-2	1	11,0
BUTYL ESTER OF ETHYLENE / MA COPOLYMER	1	3,0
BUTYL METHOXYDIBENZOYLMETHANE	1	9,0
BUXUS CHINENSIS	1	13,0
CALCIUM PANTOTHENATE	1	17,0
CAPRYLYL PYRROLIDONE	1	9,0
CERA MICROCRISTALLINA	1	6,0
CHAMOMILLA RECUTITA	1	10,0
CI 16035	1	20,0
DENATONIUM BENZOATE	1	12,0
COLLOIDAL SULFUR	1	26,0
COLLAGEN	1	4,0
CINNAMIDOPROPYL TRIMONIUM CHLORIDE	1	14,0
CI 77891	1	12,0
CERAMIDE 2	1	28,0
CI 19140	1	19,0
CEREUS GRANDIFLORUS	1	8,0
CI 15985	1	19,0
CI 15510	1	21,0
CETRIMONIUM CHLORIDE	1	6,0
LYSINE	1	18,0
CETRIMONIUM BROMIDE	1	9,0
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / ALGAE / ALOE BARBADENSIS / CHAMOMILE / HENNA / JOJOBA / ROSEMARY / DIMETHICONE COPOLYOL	1	6,0
CI 47005	1	20,0
PVP / VA	1	6,0
LINOLEIC ACID	1	10,0
SACCHAROMYCES / SILICON FERMENT	1	10,0
SACCHAROMYCES / MAGNESIUM FERMENT	1	11,0
SACCHAROMYCES / IRON FERMENT	1	13,0
SACCHAROMYCES / COPPER FERMENT	1	12,0
ROSMARINUS OFFICINALIS	1	9,0
RICINUS COMMUNIS	1	3,0
QUATERNIUM-52	1	7,0
SALVIA OFFICINALIS	1	11,0
PVP / VINYLCAPOROLACTUM / DMAPA ACRYLATES COPOLYMER	1	3,0
SERINE	1	15,0
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	1	3,0
PROLINE	1	14,0
PPG-1 TRIDECETH-6	1	4,0
POTATO FLAKES	1	12,0
POLYSORBATE 80	1	14,0

INCI Name	Number of times with the INCI Name	Average ranking
POLYQUATERNIUM-37	1	2,0
POLYQUATERNIUM-16	1	4,0
POLYISOBUTENE	1	8,0
POLYBUTENE	1	4,0
PYRUS MALUS	1	4,0
THREONINE	1	16,0
WHEAT GERMAMIDOPROPYLDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN	1	10,0
WHEAT GERM EXTRACT	1	8,0
WHEAT AMINO ACIDS	1	8,0
VISCUM ALBUM	1	24,0
VINYLPYRROLIDONE	1	16,0
VA / CROTONATES / NEODECANOATE COPOLYMER	1	6,0
URTICA DIOICA	1	13,0
TUSSILAGO FARFARA	1	23,0
SACCHAROMYCES / ZINC FERMENT	1	14,0
TITANIUM DIOXIDE	1	10,0
PELVETIA DIGITATA	1	14,0
THIAMINE HCl	1	28,0
TALLOWTRIMONIUM CHLORIDE	1	4,0
SULFUR	1	15,0
SUCROSE	1	7,0
STEARYL HEPTANOATE	1	9,0
STEARYL CAPRYLATE	1	10,0
SODIUM PCA	1	10,0
SODIUM HYDROXIDE	1	10,0
SODIUM COCOYL HYDROLYZED SOY PROTEIN	1	9,0
TUMERIC ROOT	1	7,0
IRON OXIDE	1	11,0
METHYL GLUCETH-20	1	13,0
MALVA SYLVESTRIS	1	25,0
WHEATGERMAMIDOPROPYL ETHYLDIMONIUM ETHOSULFATE	1	7,0
LINOLENIC ACID	1	11,0
LINOLEAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE	1	9,0
LAWSONIA INERMIS	1	12,0
LANOLIN ALCOHOL	1	5,0
LANOLIN	1	2,0
PETROLATUM	1	1,0
ISOPROPYL C12-15-PARETH-9 CARBOXYLATE	1	8,0
METHYLISOTHIAZOLINONE	1	13,0
IODOPROPYNYL BUTYLCARBAMATE	1	14,0
INOSITOL	1	20,0
HYDROXYETHYLCELLULOSE	1	11,0
HYDROLYZED WHEAT PROTEIN	1	8,0
HYDROLYZED VEGETABLE PROTEIN	1	7,0
HYDROLYZED SILK	1	6,0
HYDROLYZED KERATIN	1	7,0
HYDROFLUOROCARBON 152A	1	2,0
HAMAMELIS VIRGINIANA	1	19,0
LAMINARIA DIGITATE	1	15,0
PEG / PPG 25 / 25 DIMETHICONE / ACRYLATES COPOLYMER	1	2,0
GLYCINE	1	12,0
PEG-8	1	7,0
PEG-75 SHEA BUTTER GLYCERIDES	1	16,0
PEG-75 LANOLIN	1	11,0
PEG-7 GLYCERYL COCOATE	1	3,0
PEG-5M	1	19,0
PEG-45 PALM KERNEL GLYCERIDES	1	9,0
PEG-40 SORBITAN LANOLATE	1	7,0
PEG-4	1	8,0
METHYLAL	1	2,0

INCI Name	Number of times with the INCI Name	Average ranking
PEG / PPG-14 / 4 DIMETHICONE	1	6,0
METHYLCHLOROISOTHIAZOLINONE	1	12,0
PANAX GINSENG	1	11,0
OLEYL ALCOHOL	1	6,0
OLETH-5	1	10,0
OLETH-10	1	8,0
OLEAMIDOPROPYL PG-DIMONIUM CHLORIDE	1	5,0
NONOXYNOL-10	1	5,0
NITROMETHANE	1	11,0
MUSK KETONE	1	2,0
PENTAERYTHRITYL TETRACAPRYLATE / CAPRATE	1	10,0
PEG-2 DIMEADOWFOAM AMIDOETHYLMONIUM METHOSULFATE	1	5,0

Hair straightener

INCI Name	Number of times with the INCI Name	Average ranking
AQUA	8	1,3
PERFUME	6	16,0
PROPYLENE GLYCOL	5	5,0
METHYLPARABEN	5	17,0
PANTHENOL	4	9,8
PHENOXYETHANOL	4	18,3
DIMETHICONOL	4	5,8
DIMETHICONE COPOLYOL	4	5,5
CYCLOMETHICONE	3	2,0
DIMETHICONE	3	4,7
DISODIUM EDTA	3	15,3
GLYCERIN	3	4,0
LAURETH-7	2	11,0
PEG-40 HYDROGENATED CASTOR OIL	2	10,0
GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	2	9,5
PHENYL TRIMETHICONE	2	5,0
PANAX GINSENG	2	9,5
CINNAMOMUM CAMPHORA	2	15,5
CITRUS LIMONUM	2	19,0
METHYLDIHYDROJASMONATE	2	13,5
POLYACRYLAMIDE	2	6,0
METHYL GLUCETH-10	2	9,0
CYCLOPENTASILOXANE	2	3,0
DIPOTASSIUM GLYCYRRHIZATE	2	12,0
HYDROXYPROPYL GUAR	2	6,5
DMDM HYDANTOIN	2	17,0
CORIANDRUM SATIVUM	2	16,5
CAMELIA SINENSIS	2	9,5
ALOE BARBADENSIS	2	9,5
TOCOPHEROL	2	12,0
BENZOPHENONE-4	2	16,0
C13-14 ISOPARAFFIN	2	9,5
PVP	2	12,0
PROPYLPARABEN	2	18,5
BENZYL ALCOHOL	1	24,0
ACER SACCHARINUM	1	21,0
ACRYLATES COPOLYMER	1	3,0
ISOPROPYLPARABEN	1	23,0
AMINOMETHYL PROPANOL	1	5,0

INCI Name	Number of times with the INCI Name	Average ranking
AMODIMETHICONE	1	9,0
CETRIMONIUM CHLORIDE	1	8,0
ANTHEMIS NOBILIS	1	14,0
BEHENTRIMONIUM CHLORIDE	1	9,0
DIAZOLIDINYL UREA	1	10,0
BENZOIC ACID	1	21,0
BUTYLPARABEN	1	22,0
CETETH-20	1	7,0
CHLORPHENESIN	1	18,0
CETEARYL ALCOHOL	1	2,0
CHITOSAN	1	11,0
CAPRYLIC / CAPRIC TRIGLYCERIDE	1	11,0
CARBOMER	1	8,0
CITRUS AURANTIUM DULCIS	1	22,0
CITRUS AURANTIFOLIA	1	16,0
CEREUS GRANDIFLORUS	1	6,0
CETEARETH-20	1	10,0
CITRIC ACID	1	20,0
CYCLOMETHICONE DIMETHICONOL	1	3,0
SORBITOL	1	3,0
POTATO STARCH MODIFIED	1	7,0
PVP / VA COPOLYMER	1	3,0
QUATERNIUM-87	1	16,0
ROSMARINUS OFFICINALIS	1	13,0
SACCHARUM OFFICINARUM	1	20,0
SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER	1	7,0
SODIUM CHLORIDE	1	8,0
ISOHEXADECANE	1	8,0
SORBITAN OLEATE	1	11,0
POLYQUATERNIUM-11	1	5,0
STEARALKONIUM CHLORIDE	1	13,0
SUCROSE	1	5,0
TETRASODIUM EDTA	1	21,0
TRIDECETH-12	1	10,0
TRIETHANOLAMINE	1	4,0
TRIMETHYLSILYLAMODIMETHICONE	1	15,0
URTICA DIOICA	1	17,0
VA / CROTONATES / VINYL NEODECANOATE COPOLYMER	1	3,0
SODIUM HYDROXIDE	1	18,0
METHYLCHLOROISOTHIAZOLINONE	1	25,0
HYDROLYZED WHEAT PROTEIN / PVP CROSSPOLYMER	1	4,0
HYDROXYETHYLCELLULOSE	1	13,0
IODOPROPYNYL BUTYL CARBAMATE	1	14,0
ISOBUTYL PARABEN	1	21,0
2-OLEAMIDO-1,3-OCTADECANEDIOL	1	12,0
ISOLAURETH-6	1	17,0
VACCINIUM MYRTILLUS	1	19,0
LACTIC ACID	1	17,0
POLYSORBATE 80	1	10,0
LAURETH-4	1	15,0
POLYQUATERNIUM-4	1	17,0
METHYLISOTHIAZOLINONE	1	26,0
OCTOXYNOL-40	1	16,0
OCTYL METHOXYCINNAMATE	1	3,0
PANTHENYL ETHYL ETHER	1	12,0
PEG-150 / STEARYL ALCOHOL / SMDI COPOLYMER	1	6,0
PEG-60 ALMOND GLYCERIDES	1	6,0
POLYQUATERNIUM-10	1	7,0
HEXYLENE GLYCOL	1	5,0
LAURETH-23	1	14,0

Mousse

INCI Name	Number of times with the INCI Name	Average ranking
AQUA	59	1,0
PERFUME	57	12,4
PROPANE	54	4,9
BUTANE	52	3,9
PVP / VA COPOLYMER	37	4,8
ISOBUTANE	32	4,6
ALCOHOL DENAT.	31	2,4
PANTHENOL	25	9,5
CETRIMONIUM CHLORIDE	18	12,9
POLYQUATERNIUM-16	18	7,9
POLYQUATERNIUM-11	17	5,8
PEG-40 HYDROGENATED CASTOR OIL	17	7,4
PROPYLENE GLYCOL	16	8,1
AMINOMETHYL PROPANOL	16	8,6
POLYQUATERNIUM-4	15	8,5
ISOPROPYL ALCOHOL	12	9,2
PVP	12	4,8
POLYSORBATE 20	12	13,3
AMODIMETHICONE	11	9,5
TRIACETIN	11	7,1
PEG-2 OLEAMMONIUM CHLORIDE	10	8,3
TRIDECETH-12	10	11,9
LAURETH-4	10	8,3
COCAMIDE DEA	10	11,0
METHYLPARABEN	9	10,3
ACRYLATES COPOLYMER	9	9,1
DIMETHICONE COPOLYOL	8	9,9
PHENOXYETHANOL	7	10,6
QUATERNIUM-52	6	6,8
GLYCERIN	6	6,3
BENZOPHENONE-4	6	14,5
DISODIUM EDTA	5	10,0
NIACINAMIDE	5	11,2
CITRIC ACID	5	13,2
COCAMIDOPROPYL BETAINE	5	6,8
DMDM HYDANTOIN	4	13,3
KERATIN AMINO ACIDS	4	7,5
2-OLEAMIDO-1,3-OCTADECANEDIOL	4	10,8
CHITOSAN FORMATE	4	5,8
PROPYLPARABEN	4	12,8
PEG-25 PABA	4	10,8
ETHYLPARABEN	4	12,5
BUTYLPARABEN	4	13,5
PANTHENYL ETHYL ETHER	3	6,0
C9-11 PARETH-8	3	10,0
BUTYL ESTER OF PVM / MA COPOLYMER	3	3,0
BETAINE	3	8,0
CHITOSAN PCA	3	6,3
METHYLDIBROMO GLUTARONITRILE	2	7,0
ISODODECANE	2	11,0
ISOCETETH-20	2	4,5
ISOBUTYLPARABEN	2	13,0
2-BROMO-2-NITROPROPANE-1,3-DIOL	2	9,0
YOGURT	2	9,0
LAURETH-23	2	6,0
HYDROLYZED WHEAT PROTEIN	2	7,0
HYDROLYZED KERATIN	2	7,5

INCI Name	Number of times with the INCI Name	Average ranking
HYDROGENATED TALLOWETH-60 MYRISTYL GLYCOL	2	9,0
GLYOXYLIC ACID	2	7,5
DIMETHICONOL	2	15,5
DIAZOLIDINYL UREA	2	17,0
CYCLOMETHICONE	2	13,0
CITRUS LIMONUM	2	19,5
CITRUS DULCIS	2	21,5
CHITOSAN	2	10,0
CETEARETH-25	2	9,0
CAPRYLYL PYRROLIDONE	2	10,5
ANTHEMIS NOBILIS	2	12,5
ACTINIDIA CHINENSIS	2	20,5
DECYL GLUCOSIDE	2	14,0
STEARETH-21	2	11,0
PPG-5-CETETH-20	2	13,0
PVP / DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	2	5,5
QUATERNIUM-27	2	12,0
QUATERNIUM-87	2	14,0
PEG-70 MANGO GLYCERIDES	2	14,5
SILK AMINO ACIDS	2	8,0
POTASSIUM SORBATE	2	10,0
SODIUM BENZOATE	2	11,0
POLYSORBATE 80	2	14,0
TRIDECETH-10	2	9,5
PEG-192 APRICOT KERNEL GLYCERIDES	2	13,5
PCA	2	12,0
PARAFFINUM LIQUIDUM	2	2,0
VINYL CAPROLACTAM / PVP / DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	2	10,0
OLETH-2	2	7,0
OLETH-20	2	9,5
QUATERNIUM-26	1	9,0
QUATERNIUM-79 HYDROLYZED SILK	1	12,0
CETEARYL ALCOHOL	1	15,0
QUATERNIUM-79 HYDROLYZED KERATIN	1	13,0
CHAMOMILLA RECUTITA	1	7,0
CETEARETH-12	1	9,0
ACRYLATES / PVP COPOLYMER	1	14,0
BUXUS CHINENSIS	1	16,0
CI 60730	1	14,0
ACHILLEA MILLEFOLIUM	1	13,0
PPG-12-PEG-50 LANOLIN	1	15,0
QUATERNIUM-70	1	8,0
CARBOMER	1	6,0
SQUALENE	1	21,0
ROSMARINUS OFFICINALIS	1	15,0
AMMONIUM LAURYL SULFATE	1	4,0
SALVIA OFFICINALIS	1	14,0
TRITICUM SATIVUM VULGARE	1	17,0
TRITHANOLAMINE	1	12,0
TRIDECETH-9	1	7,0
BENZOPHENONE-3	1	15,0
BENZALKONIUM CHLORIDE	1	14,0
TETRASODIUM EDTA	1	7,0
TOCOPHEROL	1	14,0
AMODIMETHICONE CETRIUM CHLORIDE	1	7,0
VA / CROTONATES COPOLYMER	1	5,0
PEG-150 DISTEARATE	1	17,0
COCODIMONIUM HYDROXYPROPYL SILK AMINO ACIDS	1	10,0
PEG-6 COCAMIDE	1	13,0
PEG-5 OCTANOATE	1	8,0

INCI Name	Number of times with the INCI Name	Average ranking
HYDROLYZED SILK	1	7,0
PEG-45 PALM KERNEL GLYCERIDES	1	10,0
HYDROXYETHYL CETYLDIMONIUM PHOSPHATE	1	6,0
HYDROXYETHYLCELLULOSE	1	13,0
PEG-7 GLYCERYL COCOATE	1	10,0
PEG-32	1	11,0
PEG-75 SHEA BUTTER GLYCERIDES	1	10,0
ISOSTEARETH-20	1	9,0
KERATIN	1	12,0
OLETH-5	1	8,0
OCTYL SALICYLATE	1	19,0
LAWSONIA INERMIS	1	9,0
METHYLCHLOROISOTHIAZOLINONE	1	10,0
MYRISTAMINE OXIDE	1	6,0
HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT PROTEIN	1	15,0
PHYTANTRIOL	1	10,0
COCAMIDOPROPYL HYDROXYSULTAINE	1	13,0
LAURYL METHYL GLUCETH-10 HYDROXYPROPYLDIMONIUM CHLORIDE	1	11,0
COLLAGEN	1	11,0
METHYLISOTHIAZOLINONE	1	11,0
POLYQUATERNIUM-7	1	9,0
POLYQUATERNIUM-10	1	11,0
DIMETHICONE	1	9,0
HYDROGENATED CASTOR OIL	1	14,0
POLYQUATERNIUM	1	5,0
POLYVINYL ALCOHOL	1	5,0
DIMETHYL ETHER	1	3,0
DIPROPYLENE GLYCOL	1	9,0
PERSEA GRATISSIMA	1	18,0
PENTAERYTHRITYL TETRACAPRYLATE / CAPRATE	1	11,0
DMHF	1	7,0
ETHYL ESTER OF HYDROLYZED SILK	1	11,0
ETHYL ESTER OF PVM / MA COPOLYMER	1	2,0
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / WHITE GINGER / DIMETHICONE COPOLYOL	1	7,0

Wax

INCI Name	Number of times with the INCI Name	Average ranking
PERFUME	45	10,4
PETROLATUM	23	1,0
AQUA	23	2,4
PROPYLPARABEN	19	13,5
METHYLPARABEN	16	13,7
PARAFFINUM LIQUIDUM	15	2,6
PHENOXYETHANOL	13	12,0
GLYCERIN	12	7,3
PROPYLENE GLYCOL	10	6,7
ISOPROPYL MYRISTATE	9	5,7
BUTYLPARABEN	8	13,5
MICA	8	11,6
LANOLIN	7	4,6
PEG-40 HYDROGENATED CASTOR OIL	7	4,0
ISOBUTYLPARABEN	7	13,9

INCI Name	Number of times with the INCI Name	Average ranking
ETHYL PARABEN	7	12,6
RICINUS COMMUNIS	6	3,8
LANOLIN ALCOHOL	6	6,7
PARAFFIN	6	4,7
PANTHENOL	5	10,8
CETEARETH-30	5	2,8
CETEARETH-20	5	6,6
PHENYL TRIMETHICONE	5	4,2
PEG-7 GLYCERYL COCOATE	5	2,6
C12-15 ALKYL BENZOATE	5	6,2
OLETH-10	5	6,2
OCTYLDODECANOL	5	4,2
TITANIUM DIOXIDE	5	11,6
CI 61565	5	12,4
OZOKERITE	5	3,6
CETYL ALCOHOL	5	4,8
CERA ALBA	5	2,6
CI 47000	4	11,8
SORBIC ACID	4	10,8
DISODIUM EDTA	4	14,3
DMDM HYDANTOIN	4	11,5
SORBITOL	4	9,5
CERA MICROCRISTALLINA	4	5,0
DIMETHICONE	4	6,3
OLETH-20	4	5,5
BEESWAX ACID	4	4,3
CHOLESTEROL	4	5,5
CYCLOMETHICONE	4	7,8
STEARIC ACID	4	4,3
OCTYL METHOXYCINNAMATE	3	8,7
OCTYLDODECYL NEOPENTANOATE	3	9,0
OLETH-5	3	6,0
CETEARYL ALCOHOL	3	8,3
IRON OXIDE	3	10,3
CI 77891	3	13,0
MINERAL OIL	3	3,7
HYDROGENATED CASTOR OIL	3	4,7
COCOS NUCIFERA	3	4,3
HYDROGENATED MICROCRYSTALLINE WAX	3	5,7
PEG-8 BEESWAX	3	6,0
PVP / VA COPOLYMER	3	4,0
BHT	3	11,7
POLYSORBATE 60	3	5,7
PEG-25 HYDROGENATED CASTOR OIL	3	2,7
PPG-5-CETETH-20	3	3,0
ALOE BARBADENSIS	3	8,0
BENZOIC ACID	3	10,3
PEG-75	3	1,7
CARNAUBA	3	8,7
STEARETH-20	3	4,0
KAOLIN	2	6,5
DIMETHICONOL	2	3,5
METHYLDIBROMO GLUTARONITRILE	2	14,0
TOCOPHERYL ACETATE	2	9,5
LAWSONIA INERMIS	2	10,0

INCI Name	Number of times with the INCI Name	Average ranking
ACETYLATED LANOLIN ALCOHOL	2	14,0
SUCROSE	2	14,0
HYDROXYLATED LANOLIN	2	10,0
OLETH-3 PHOSPHATE	2	7,0
AMINOMETHYL PROPANOL	2	14,0
DIAZOLIDINYL UREA	2	22,0
ALCOHOL	2	7,5
HYDROLYZED WHEAT PROTEIN	2	13,5
HYDROGENATED ROSIN	2	5,0
CI 60725	2	10,0
POLYISOBUTENE	2	6,5
PEG-9 COCOGLYCERIDES	2	2,0
CERESIN	2	6,5
CAPRYLIC / CAPRIC TRIGLYCERIDE	2	3,5
CEREUS GRANDIFLORUS	2	14,0
PEG-10 SOYA STEROL	2	11,5
CETEARETH-25	2	3,0
PEG-100 STEARATE	2	15,5
PEG-20 STEARATE	2	12,0
BHA	2	12,5
NIACINAMIDE	2	12,5
ACTINIDIA CHINENSIS	1	15,0
COCO-BETAINE	1	6,0
ISOPROPYL LANOLATE	1	5,0
COCO-CAPRYLATE / CAPRATE	1	5,0
CANDELILLA CERA	1	5,0
CAPRYLIC / CAPRIC / STEARIC TRIGLYCERIDE	1	4,0
COCODIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN	1	12,0
DEA-OLETH-3 PHOSPHATE	1	7,0
ACETYLATED LANOLIN	1	3,0
CARTHAMUS TINCTORIUS	1	8,0
DAUCUS CAROTA	1	8,0
CITRUS LIMONUM	1	14,0
CI 77947	1	10,0
DIMETHICONAL	1	19,0
DIISOSTEAROYL TRIMETHYLOLPROPANE SILOXY SILICATE	1	6,0
DIISOPROPYL DIMER DILINOLEATE	1	4,0
CELETH-20	1	5,0
ALCOHOL DENAT.	1	10,0
CI 61570	1	23,0
BENZYL ALCOHOL	1	9,0
CETYL ACETATE	1	10,0
BENZOPHENONE-4	1	15,0
CHLOROACETAMIDE	1	22,0
BENZOPHENONE-3	1	7,0
CI 17200	1	20,0
CI 19140	1	24,0
CI 42090	1	19,0
BUTYLENE GLYCOL	1	2,0
CITRIC ACID	1	21,0
ANTHEMIS NOBILIS	1	11,0
CITRUS DULCIS	1	16,0
BUXUS CHINENSIS	1	13,0

INCI Name	Number of times with the INCI Name	Average ranking
CI 77491	1	10,0
C18-36 ACID GLYCOL ESTER	1	8,0
CI 77492	1	13,0
CI 77499	1	9,0
ALUMINUM DISTEARATE	1	5,0
BETAINE	1	4,0
ALGAE	1	9,0
BEHENTRIMONIUM METHOSULFATE	1	16,0
FLAVOUR	1	5,0
PEG-8	1	1,0
ISODODECANE	1	2,0
PPG-20 METHYL GLUCOSE ETHER	1	6,0
POLYSORBATE 80	1	2,0
POLYSILICONE-11	1	5,0
POLYQUATERNIUM-11	1	7,0
POLYBUTENE	1	4,0
PVP / VA	1	12,0
PEG-90M	1	10,0
RETINYL PALMITATE	1	7,0
PEG-70 MANGO GLYCERIDES	1	10,0
PEG-60 ALMOND GLYCERIDES	1	15,0
PEG-60	1	2,0
PEG-4	1	1,0
PEG-192 APRICOT KERNEL GLYCERIDES	1	9,0
PEG-12	1	1,0
PANAX GINSENG	1	10,0
PHOSPHATE	1	6,0
SODIUM BENZOATE	1	21,0
TRIDECETH-7	1	14,0
TOCOPHEROL	1	10,0
STYRENE / PVP COPOLYMER	1	2,0
STYRENE / ACRYLATES COPOLYMER	1	6,0
STEARYL ALCOHOL	1	17,0
SORBITAN STEARATE	1	7,0
PVP	1	9,0
SODIUM LAURYL SULFATE	1	7,0
OCTYL STEARATE	1	7,0
SIMETHICONE	1	16,0
SIMETHICON	1	16,0
SILICA	1	7,0
SHEA BUTTER	1	13,0
SERENOA SERRULATA	1	12,0
ROSMARINUS OFFICINALIS	1	14,0
RHUS SUCCEDANEA	1	4,0
SODIUM METABISULFITE	1	13,0
HYDROGENATED BUTYLENE / ETHYLENE / STYRENE COPOLYMER	1	7,0
ISOBUTANE	1	1,0
I.P.M.	1	18,0
HYDROXYSTEARIC ACID	1	3,0
HYDROXYPROPYL BISSTEARYLDIMONIUM CHLORIDE	1	9,0
HYDROLYZED WHEAT STARCH	1	18,0
HYDROLYZED WHEAT GLUTEN	1	9,0
OLETH-3	1	5,0
HYDROGENATED COCONUT OIL	1	1,0

INCI Name	Number of times with the INCI Name	Average ranking
WHEAT GERM GLYCERIDES	1	14,0
HYDROABIETYL ALCOHOL	1	2,0
HOPS EXTRACT	1	18,0
HELIANTHUS ANNUUS	1	6,0
GLYCERYL STEARATE	1	15,0
DISTEARYLDIMONIUM CHLORIDE	1	9,0
DISTEAROYLETHYL HYDROXYETHYLMONIUM METHOSULFATE	1	9,0
DIMETHICONE COPOLYOL	1	14,0
HYDROGENATED ETHYLENE / PROPYLENE / STYRENE COPOLYMER	1	8,0
MAGNESIUM ALUMINUM SILICATE	1	18,0
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / ALGAE / ALOE BARBADENSIS / CHAMOMILE / HENNA / JOJOBA / ROSEMARY / DIMETHICONE COPOLYOL	1	7,0
OCTYL PALMITATE	1	2,0
NETTLE EXTRACT	1	19,0
MICROWAX 80	1	9,0
METHYLISOTHIAZOLINONE	1	11,0
METHYLCHLOROISOTHIAZOLINONE	1	10,0
METHYL HYDROGENATED ROSINATE	1	5,0
ACETAMIDE MEA	1	13,0
MEADOWFOAM SEED OIL	1	16,0
ISOPROPYL ALCOHOL	1	15,0
LEMONGRASS EXTRACT	1	20,0
LAURETH-4	1	6,0
LANOLIN CERA	1	10,0
LANETH-10	1	15,0
LACTAMIDE MEA	1	14,0
ISOPROPYLPARABEN	1	17,0
OLEA EUROPAEA	1	17,0
METHYL GLUCETH-20	1	5,0

List of all constituents in hairstyling products

This enclosure is a list of all chemical constituents listed in prioritized order. The priority is exclusively based on the number of hairstyling products which the individual substances form a part of. The substances that are in most hairstyling products have first priority. If more substances are found in the same number of hairstyling products the substances have priority after ranking. Substances with lowest ranking (that means with expected largest content) have the highest priority. However, the ranking is not unambiguous as the ranking and the amount of the substance depend on the total number of substances in the products which is very different from product to product.

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
PERFUME				286	10,9
AQUA	7732-18-5	Water	solvents	257	1,8
ALCOHOL DENAT.	64-17-5	Ethanol	solvents	161	1,7
PANTHENOL	81-13-0	Dexpanthenol	antistatic agents	122	8,5
AMINOMETHYL PROPANOL	124-68-5	2-amino-2-methylpropanol	buffering agents	107	7,1
BUTANE	106-97-8	Butane	propellants	96	3,4
PROPANE	74-98-6	Propane	propellants	93	4,6
PVP / VA COPOLYMER	25086-89-9	Acetic acid, ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	antistatic agents / binders / emulsion stabilisers / film formers	91	3,8
DIMETHICONE COPOLYOL	64365-23-7	Siloxanes and silicones, di-me, hydroxy-terminated, ethoxylated propoxylated	antistatic agents / emollients	82	7,5
PROPYLENE GLYCOL	57-55-6	Propane-1, 2-diol	humectants / solvents	81	7,2
METHYLPARABEN	99-76-3	Methyl 4-hydroxybenzoate	preservatives	75	13,7
CARBOMER	9007-20-9 9003-01-4	Carbomer	emulsion stabilisers / viscosity controlling agents	70	5,4
PVP	9003-39-8	2-pyrrolidinone, 1-ethenyl-, homopolymer	antistatic agents / binders / emulsion stabilisers / film formers	64	4,4
ISOBUTANE	75-28-5	Isobutane	propellants	62	4,1
TRIETHANOLAMINE	102-71-6	2, 2', 2''-nitrilotriethanol	buffering agents	60	6,7
PHENOXYETHANOL	122-99-6	2-phenoxyethanol	preservatives	58	13,1
PEG-40 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	56	6,7
PROPYLPARABEN	94-13-3	Propyl 4-hydroxybenzoate	preservatives	52	15,2
GLYCERIN	56-81-5	Glycerol	denaturants / humectants /	48	6,4

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
			solvents		
BENZOPHENONE-4	4065-45-6	Sulisobenzone	U.V. absorbers	46	12,1
POLYQUATERNIUM-11	53633-54-8	2-propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate	antistatic agents / film formers	44	6,0
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	70801-07-9		antistatic agents / film formers	30	4,0
CETRIMONIUM CHLORIDE	112-02-7	Cetrimonium chloride	preservatives	28	12,4
BUTYL PARABEN	94-26-8	Butyl 4-hydroxybenzoate	preservatives	28	15,4
DIMETHYL ETHER	115-10-6	Dimethyl ether	propellants / solvents	27	1,9
NIACINAMIDE	98-92-0	Nicotinamide	additives	27	11,3
DMDM HYDANTOIN	6440-58-0	1, 3-bis(hydroxymethyl)-5, 5-dimethylimidazolidine-2, 4-dione	preservatives	27	12,0
ETHYL PARABEN	120-47-8	Ethyl 4-hydroxybenzoate	preservatives	27	14,6
PETROLATUM	2231335 (not a CAS No. found 8009-03-8, 8020-83-5)	Petrolatum. A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than C25	antistatic agents / emollients	26	1,4
DISODIUM EDTA	139-33-3	Disodium dihydrogen ethylenediaminetetraacetate	chelating agents / viscosity controlling agents	26	12,0
POLYQUATERNIUM-4	111774-28-8		antistatic agents / film formers	25	8,1
CYCLOMETHICONE	69430-24-6	Octamethylcyclotetrasiloxane / decamethylcyclopentasiloxane	antistatic agents / emollients / humectants / solvents / viscosity controlling agents	24	6,3
POLYSORBATE 20	9005-64-5	Sorbitan, monododecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	22	10,8
TETRASODIUM EDTA	64-02-8	Tetrasodium ethylenediaminetetraacetate	chelating agents	22	12,9
PARAFFINUM LIQUIDUM	8012-95-1	Paraffin oils. Liquid hydrocarbons from petroleum	antistatic agents / emollients / solvents	21	3,0
DIMETHICONE	9006-65-9 63148-62-9	Dimethicone	antifoaming agents / emollients	21	5,4
POLYQUATERNIUM-16	95144-24-4		antistatic agents / film formers	20	7,7
ISOPROPYL ALCOHOL	67-63-0	Propan-2-ol	antifoaming agents / solvents	20	7,9
CI 42090	2650-18-2, 3844-45-9, 68921-42-6	Diammonio(ethyl)[4-[[4-[ethyl(3-sulphonatobenzyl)amino]phenyl]](2-sulphonatophenyl)methylene]cyclohexa-2, 5-dien-1-ylidene](3-sulphonatobenzyl)ammonium; Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino]-2'-sulphonatobenzhydrylidene]cy	cosmetic colorants	20	15,1
PHENYL TRIMETHICONE	2116-84-9	1, 1, 5, 5, 5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]trisiloxane	antifoaming agents / antistatic agents / emollients	18	5,3
ALCOHOL	64-17-5	Ethanol	solvents	17	3,5

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
ACRYLATES COPOLYMER	25133-97-5	2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate	antistatic agents / binders / film formers	17	6,6
OCTYL METHOXYCINNAMATE	5466-77-3	2-ethylhexyl 4-methoxycinnamate	U.V. absorbers	17	7,8
AMODIMETHICONE			antistatic agents	16	9,5
MICA	12001-26-2	Mica-group minerals (CI 77019)	opacifiers	16	10,6
TOCOPHEROL	59-02-9, 10191-41-0	α-tocopherol; 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-ol	antioxidants	16	11,4
CYCLOPENTASILOXANE	541-02-6 (found)			15	5,9
ALOE BARBADENSIS	85507-69-3	Aloe vera, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Aloe vera, Liliaceae	emollients	14	6,9
LAURETH-4	5274-68-0	3, 6, 9, 12-tetraoxatetracosan-1-ol	emulsifying agents / surfactants	14	8,4
SORBITOL	50-70-4	D-glucitol	humectants	14	9,0
BENZYL ALCOHOL	100-51-6	Benzyl alcohol	preservatives / solvents	14	10,1
TRIDECETH-12	24938-91-8	Poly(oxy-1, 2-ethanediyl), a-tridecyl-?-hydroxy	emulsifying agents / surfactants	14	12,7
CITRIC ACID	77-92-9	Citric acid	buffering agents / chelating agents	14	12,9
ISOBUTYL PARABEN	857259	Isobutyl 4-hydroxybenzoate	preservatives	14	15,3
CI 19140	1934-21-0, 12225-21-7, 97375-39-8	Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate; Aluminum, 4, 5-dihydro-5-oxo-1-(4-sulphophenyl)-4-(4-sulphophenyl)azo-1H-pyrazole-3-carboxylic acid complex. This substance is identified in the Colour	cosmetic colorants	14	17,1
VA / VINYL BUTYL BENZOATE / CROTONATES COPOLYMER			film formers	13	3,1
KERATIN AMINO ACIDS		Keratins, hydrolyzates	antistatic agents	13	9,0
DIAZOLIDINYL UREA	78491-02-8	1-[1, 3-bis(hydroxymethyl)-2, 5-dioximidazolidin-4-yl]-1, 3-bis(hydroxymethyl)urea	preservatives	13	15,2
CITRUS LIMONUM	84929-31-7	Lemon, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Citrus limonum, Rutaceae	botanicals	13	17,7
PPG-3 METHYL ETHER	20324-33-8 37286-64-9	1-[2-(2-methoxy-1-methylethoxy)-1-methylethoxy]propan-2-ol	solvents	12	6,3
PANTHENYL ETHYL ETHER	667-83-4	(+)-N-(3-ethoxypropyl)-2, 4-dihydroxy-3, 3-dimethylbutyramide	antistatic agents	12	6,8
DIMETHICONOL	31692-79-2	Poly[oxy(dimethylsilyl)], a-hydro-?-hydroxy-	antifoaming agents / emollients	12	7,0
HYDROLYZED WHEAT PROTEIN	94350-06-8 70084-87-6	Protein hydrolyzates, wheat germ. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of wheat germ composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along with	antistatic agents	12	10,0
TRIACETIN	102-76-1	Triacetin	antimicrobials / film formers / solvents	11	7,1
TRIETHYL CITRATE	77-93-0	Triethyl citrate	antioxidants / deodorant agents / solvents	11	8,3

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
SODIUM HYDROXIDE	1310-73-2	Sodium hydroxide	buffering agents / denaturants	11	9,5
METHYLDIBROMO GLUTARONITRILE	35691-65-7	2-bromo-2-(bromomethyl)pentanedinitrile	preservatives	11	11,1
BENZOPHENONE-3	131-57-7	Oxybenzone	U.V. absorbers	11	13,9
ACRYLATES / ACRYLAMIDE COPOLYMER		Propenamide, polymer with propenoic acid, butenoic acid, and/or alkyl propenoates	film formers	10	3,5
VA / CROTONATES COPOLYMER	25609-89-6	2-butenoic acid, polymer with ethenyl acetate	antistatic agents / binders / film formers	10	4,6
CETEARYL ALCOHOL	67762-27-0 8005-44-5	Alcohols, C16-18. This substance is identified by SDA Substance Name: C16-C18 alkyl alcohol and SDA Reporting Number: 19-060-00	emollients / emulsifying agents / emulsion stabilisers / opacifiers / viscosity controlling agents	10	5,9
ISOPROPYL MYRISTATE	110-27-0	isopropyl myristate	binders / emollients / solvents	10	6,1
OLETH-20	9004-98-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	surfactants	10	6,8
COCAMIDOPROPYL BETAINE	61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	surfactants	10	6,9
QUATERNIUM-52	58069-11-7	Poly(oxy-1, 2-ethanediyl), a, a', a"-((octadecylnitrilio)tri-2, 1-ethanediyl)tris(?-hydroxy)-, phosphate (1:1) (salt)	antistatic agents / surfactants	10	7,5
PEG-2 OLEAMMONIUM CHLORIDE	18448-65-2	Bis(hydroxyethyl)methyloleylammonium chloride	antistatic agents / emulsifying agents / surfactants	10	8,3
COCAMIDE DEA	68603-42-9 61791-31-9	Amides, coco, N, N-bis(hydroxyethyl)	emulsifying agents / emulsion stabilisers / surfactants / viscosity controlling agents	10	11,0
PEG-192 APRICOT KERNEL GLYCERIDES				10	11,4
SODIUM BENZOATE	532-32-1	Sodium benzoate	preservatives	10	12,0
TOCOPHERYL ACETATE	58-95-7, 7695-91-2	a-tocopheryl acetate, 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	antioxidants	10	12,1
PEG-70 MANGO GLYCERIDES			emulsifying agents	10	12,4
PANAX GINSENG	84650-12-4	Ginseng, Panax pseudoginseng, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Panax pseudoginseng	botanicals	10	14,7
ACTINIDIA CHINENSIS	92456-63-8	Actinidia chinensis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Actinidia chinensis, Actinid	botanicals	10	18,5
CITRUS DULCIS	8028-48-6	Orange, sweet, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Citrus sinensis,	botanicals	10	19,6

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		Rutaceae			
LANOLIN	8006-54-0, 70321-63-0 8038-43-5	Lanolin. Fat-like substance derived from sheep wool. Contains a complex combination of esters and polyesters, consisting chiefly of cholesteryl and isocholesteryl esters of the higher fatty acids	antistatic agents / emollients / emulsifying agents	9	4,0
OCTYLDODECANOL	5333-42-6	2-octyldodecan-1-ol	emollients / solvents	9	4,3
HYDROXYPROPYL GUAR	68442-94-4 39421-75-5	Guar gum, 2-hydroxypropyl ether, depolymerized	antistatic agents / binders / emulsion stabilisers / film formers / viscosity controlling agents	9	6,9
ISOSTEARETH-20	52292-17-8	Poly(oxy-1, 2-ethanediyl), a-isoctadecyl-2-hydroxy-	emulsifying agents	9	7,8
ACRYLATES / C10-30 ALKYL ACRYLATE CROSSPOLYMER		C10-C30 alkyl propenoate, polymer with propenoic acid, butenoic acid and/or alkyl propenoates, product with propenyl sucrose ether or propenyl 2, 2-dihydroxymethyl-1, 3-propanediol	film formers	9	8,1
HYDROXYETHYLCELLULOSE	9004-62-0	Cellulose, 2-hydroxyethyl ether	binders / emulsion stabilisers / film formers / viscosity controlling agents	9	8,6
TITANIUM DIOXIDE	13463-67-7	Titanium dioxide (CI 77891)	opacifiers	9	11,7
OZOKERITE	64742-33-2 8021-55-4	Hydrocarbon waxes (petroleum), chemically neutralized. A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists predominantly of saturated straight chain hydrocarbons having carbon numbers predominantly	binders / emulsion stabilisers / opacifiers / viscosity controlling agents	8	4,6
RICINUS COMMUNIS	8001-79-4	Castor oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid ricinoleic. (Ricinus communis, Euphorbiaceae)	emollients	8	4,6
VA / CROTONATES / VINYL NEODECANOATE COPOLYMER	58748-38-2 55353-21-4	Neodecanoic acid, ethenyl ester, polymer with 2-butenic acid and ethenyl acetate	antistatic agents / film formers	8	4,8
PVP / DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	30581-59-0		antistatic agents / binders / emulsion stabilisers / film formers	8	5,1
PPG-5-CETETH-20	9087-53-0 37311-01-6	Oxirane, methyl-, polymer with oxirane, hexadecyl ether	emulsifying agents / surfactants	8	7,4
2-OLEAMIDO-1,3-OCTADECANEDIOL		1, 3-octadecanediol, 2-oleamido-	additives	8	9,1
CAMELIA SINENSIS	84650-60-2	Tea, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Thea chinensis, Theaceae	botanicals	8	10,5
RETINYL PALMITATE	79-81-2	Retinyl palmitate	additives	8	12,6
POTASSIUM SORBATE	24634-61-5 590-00-1	Potassium (E, E)-hexa-2, 4-dienoate	preservatives	8	12,8
LAWSONIA INERMIS	84988-66-9	Lawsonia inermis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Lawsonia inermis, Lythraceae	biological additives	8	13,5

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
METHYLCHLOROISOTHIAZOLINONE	26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	preservatives	8	13,8
METHYLISOTHIAZOLINONE	2682-20-4	2-methyl-2H-isothiazol-3-one	preservatives	8	15,0
PENTANE	109-66-0	Pentane	propellants / solvents	7	3,0
PEG-7 GLYCERYL COCOATE	68201-46-7 66105-29-1	Glycerides, coco mono-and di-, ethoxylated	emulsifying agents / surfactants	7	3,7
CETYL ALCOHOL	36653-82-4	Hexadecan-1-ol	emollients / emulsifying agents / opacifiers / viscosity controlling agents	7	4,4
HYDROGENATED CASTOR OIL	8001-78-3	Castor oil, hydrogenated	emollients / emulsifying agents / surfactants / viscosity controlling agents	7	6,3
OLETH-10	9004-98-2 24871-34-9	Poly(oxy-1, 2-ethanediy), a-9-octadecenyl-?-hydroxy-	emulsifying agents / surfactants	7	6,3
LANOLIN ALCOHOL	8027-33-6	Alcohols, lanolin. A complex combination of organic alcohols obtained by the hydrolysis of lanolin	antistatic agents / emollients / emulsifying agents	7	6,4
CETEARETH-25	68439-49-6		emulsifying agents / surfactants	7	6,7
CETEARETH-20	68439-49-6		emulsifying agents / surfactants	7	6,9
BETAINE	107-43-7	Betaine	antistatic agents / viscosity controlling agents	7	7,9
BUTYLENE GLYCOL	107-88-0	Butane-1, 3-diol	humectants / solvents	7	8,1
ETHYLHEXYL METHOXYCINNAMATE				7	8,3
PEG-25 PABA	116242-27-4		U.V. absorbers	7	9,1
PENTASODIUM PENTETATE	140-01-2	Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	chelating agents	7	11,9
CORIANDRUM SATIVUM	84775-50-8	Coriander, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Coriandrum sativum, Umbelliferae	botanicals	7	13,3
METHYLDIHYDROJASMONATE	2630-39-9	Methyl (1R-trans)-3-oxo-2-pentylcyclopentaneacetate	additives	7	13,6
CITRUS AURANTIUM DULCIS				7	13,9
ANTHEMIS NOBILIS	84649-86-5	Anthemis nobilis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Anthemis nobilis, Compositae	biological additives	7	14,6
ROSMARINUS OFFICINALIS	84604-14-8	Rosemary, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Rosmarinus officinalis, Labiatae	botanicals	7	17,0
CERA ALBA	8012-89-3 8006-40-4	Beeswax. The wax obtained from the honeycomb of the bee. It consists primarily of myricyl palmitate, cerotic acid and esters and some high-carbon paraffins	emollients / emulsifying agents / film formers	6	2,7

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
PARAFFIN	8002-74-2 64742-51-4	Paraffin waxes and Hydrocarbon waxes. A complex combination of hydrocarbons obtained from petroleum fractions by solvent crystallization (solvent deoiling) or by the sweating process. It consists predominantly of straight chain hydrocarbons having carbon	emollients / viscosity controlling agents	6	4,7
PEG-90M	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	binders / emulsion stabilisers / viscosity controlling agents	6	6,2
C12-15 ALKYL BENZOATE	68411-27-8	Benzoic acid, C12-15-alkyl esters	emollients	6	6,5
CAPRYLIC / CAPRIC TRIGLYCERIDE	73398-61-5 65381-09-1	Glycerides, mixed decanoyl and octanoyl	emollients / solvents	6	6,7
OLETH-5	9004-98-2 5353-27-5	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	emulsifying agents	6	7,5
ISODODECANE	31807-55-3	Isododecane	emollients	6	8,5
POLYQUATERNIUM-10	81859-24-7 53568-66-4	Cellulose, 2-(2-hydroxy-3-(trimethylammonium)propoxy)ethyl ether, chloride	antistatic agents / film formers	6	9,5
IODOPROPYNYL BUTYLCARBAMATE	55406-53-6	3-iodo-2-propynyl butylcarbamate	preservatives	6	11,8
TRITICUM VULGARE	9005-25-8, 84012-44-2, 93384-22-6, 130498-22-5, 68917-73-7	Starch. High-polymeric carbohydrate material usually derived from cereal grains such as corn, wheat and sorghum, and from roots and tubers such as potatoes and tapioca. Includes starch which has been pregelatinized by heating in the presence of water; Oi	absorbents / viscosity controlling agents; botanicals, emollients	6	13,8
CETEARETH-30	68439-49-6		emulsifying agents / surfactants	5	2,8
POLYQUATERNIUM-46				5	3,0
BUTYL ESTER OF PVM / MA COPOLYMER	25119-68-0	2-butenedioic acid (Z)-, polymer with methoxyethene, monobutyl ester	antistatic agents / film formers	5	3,4
STEARIC ACID	57-11-4	Stearic acid	emulsifying agents / emulsion stabilisers	5	4,2
PEG-25 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	5	4,4
POLYSILICONE-8				5	4,6
CERA MICROCRISTALLINA	63231-60-7	Paraffin waxes and Hydrocarbon waxes, microcryst.. A complex combination of long, branched chain hydrocarbons obtained from residual oils by solvent crystallization. It consists predominantly of saturated straight and branched chain hydrocarbons predomina	binders / emulsion stabilisers / opacifiers / viscosity controlling agents	5	5,2
PEG-60 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	5	6,8
PEG-8 BEESWAX			emulsifying agents	5	7,2
DENATONIUM BENZOATE	3734-33-6	Denatonium benzoate	denaturants	5	8,2
LAURETH-23	9002-92-0	Poly(oxy-1, 2-ethanediyl), a-dodecyl-?-hydroxy-	emulsifying agents / surfactants	5	8,4
CI 18050	3734-67-6	Disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate	cosmetic colorants	5	8,8
DIPOTASSIUM GLYCYRRHIZATE	68797-35-3	a-d-Glucopyranosiduronic acid, (3a, 20a)-20-carboxy-11-oxo-30-norolean-12-en-3-yl 2-O-a-d-glucopyranuronosyl-, dipotassium salt	humectants	5	10,6
CEREUS GRANDIFLORUS	8007-78-1	Selenicereus grandiflorus, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from	botanicals	5	10,8

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		Selenicereus grandiflo			
POLYSORBATE 80	9005-65-6	Sorbitan, mono-9-octadecenoate, poly(oxy-1, 2-ethanediyl) derivs., (Z)-	emulsifying agents / surfactants	5	10,8
SUCROSE	57-50-1	Sucrose	humectants	5	11,0
BHT	128-37-0	2, 6-di-tert-butyl-P-cresol	antioxidants	5	12,2
SORBIC ACID	110-44-1	Hexa-2, 4-dienoic acid	preservatives	5	12,2
CI 61565	128-80-3	1, 4-bis(p-tolylamino)anthraquinone	cosmetic colorants	5	12,4
CI 77891	13463-67-7	Titanium dioxide	cosmetic colorants	5	13,0
BUXUS CHINENSIS	90045-98-0, 61789-91-1	Jjoba, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Simmondsia chinensis N., Buxaceae; Extrac	botanicals; emollients	5	13,4
DIPROPYLENE GLYCOL	110-98-5	1, 1'-oxydipropan-2-ol	solvents	5	18,0
HYDROXYPROPYL METHYLCELLULOSE	9004-65-3	Cellulose, 2-hydroxypropyl methyl ether	binders / emulsion stabilisers / film formers / viscosity controlling agents	4	4,0
BEESWAX ACID		Fatty acids, beeswax	additives	4	4,3
TETRAHYDROXYPROPYL ETHYLENEDIAMINE	102-60-3	1, 1', 1'', 1'''-ethylenedinitrotetrapropan-2-ol	chelating agents	4	5,3
CHOLESTEROL	57-88-5	Cholesterol	emollients / emulsifying agents	4	5,5
CHITOSAN FORMATE				4	5,8
CHITOSAN PCA	117522-93-7	Chitosan, pyrrolidonecarboxylic acid salt	humectants	4	6,5
CI 42735	6505-30-2	Hydrogen [4-[[4-(diethylamino)phenyl][4-[ethyl[(3-sulphonatobenzyl)amino]-o-tolyl]methylene]-3-methylcyclohexa-2, 5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt	cosmetic colorants	4	6,5
DIMETHICONE PROPYL PG-BETAINE			antistatic agents / surfactants	4	6,5
PEG-15 COCOPOLYAMINE			antistatic agents / emulsifying agents	4	6,5
SODIUM LAURYL SULFATE	151-21-3	Sodium dodecyl sulphate	denaturants / emulsifying agents / surfactants	4	7,3
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / WHITE GINGER / DIMETHICONE COPOLYOL				4	7,5
COCOS NUCIFERA	8001-31-8	Coconut oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids capric, lauric, myristic, oleic and palmitic. (Cocos nucifera, Palmae); Extractives and their physically modified derivatives su	emollients / solvents; botanicals	4	7,8
CARNAUBA	8015-86-9	Carnauba wax. The wax derived from Copernicia cerifera, Palmae	emollients / film formers	4	9,0
QUATERNIUM-79 HYDROLYZED SILK			antistatic agents	4	9,3
SILK AMINO ACIDS	96690-41-4	Protein hydrolyzates, silk	humectants	4	9,8
HYDROXYPROPYLCELLULOSE	9004-64-2	Cellulose, 2-hydroxypropyl ether	binders / emulsion stabilisers / film formers / viscosity	4	10,3

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
			controlling agents		
IRON OXIDE	1309-37-1, 1345-25-1, 1317-61-9	Diiron trioxide (CI 77489, 77491, 77492, 77499); Magnesium oxide (CI 77489, 77491, 77492, 77499); Triiron tetraoxide (CI 77489, 77491, 77492, 77499)	additives	4	10,5
METHYL GLUCETH-20	68239-42-9	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-, ether with methyl α -D-glucopyranoside (4:1)	humectants	4	10,8
PERSEA GRATISSIMA	8024-32-6; 91770-40-0, 84695-98-7	Oils, avocado. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, and palmitic. (Persea americana, Lauraceae)	emollients; botanicals	4	11,0
CI 47000	8003-22-3	1, 3-Isobenzofurandione, reaction products with methylquinoline and quinoline. This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 47000	cosmetic colorants	4	11,8
BENZOIC ACID	65-85-0	Benzoic acid	preservatives	4	13,0
LAVANDULA ANGUSTIFOLIA	90063-37-9	Lavender, Lavandula angustifolia, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Lavandula angus	botanicals	4	13,0
ACHILLEA MILLEFOLIUM	84082-83-7	Yarrow, Achillea millefolium, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Achillea millefoliu	botanicals	4	14,0
CI 60725	81-48-1	1-hydroxy-4-(p-toluidino)anthraquinone	cosmetic colorants	4	14,8
CI 17200	3567-66-6	Disodium 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate; 2, 7-naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(3-phenylazo)-, Al-lake	cosmetic colorants	4	15,3
CI 47005	94891-32-4, 8004-92-0	Aluminum, 2-(1, 3-dihydro-1, 3-dioxo-2H-inden-2-ylidene)-1, 2-dihydro-6, 7-quinolinedisulfonate complexes	cosmetic colorants	4	17,5
JUNIPERUS COMMUNIS	84603-69-0	Juniper, Juniperus communis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Juniperus communis,	botanicals	4	20,5
PEG-75	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	binders / humectants / solvents	3	1,7
METHACRYLOYL ETHYL BETAINE / ACRYLATES COPOLYMER	87435-35-6	Amersette	antistatic agents / film formers	3	2,7
ETHYL ESTER OF PVM / MA COPOLYMER	25087-06-3	2-butanedioic acid (Z)-, monoethyl ester, polymer with methoxyethene	antistatic agents / film formers	3	3,0
MINERAL OIL				3	3,7
PEG-8	5117-19-1 25322-68-3	3, 6, 9, 12, 15, 18, 21-heptaotricosane-1, 23-diol	humectants / solvents	3	3,7
STEARETH-20	9005-00-9	Poly(oxy-1, 2-ethanediyl), a-octadecyl-?-hydroxy	emulsifying agents / surfactants	3	4,0
HYDROGENATED MICROCRYSTALLINE WAX	92045-76-6	Paraffin waxes and Hydrocarbon waxes, microcryst., hydrotreated. A complex combination of hydrocarbons obtained from residual oils by solvent crystallisation and treated with hydrogen in the presence of a catalyst. It consists	viscosity controlling agents	3	5,7

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		predominantly of saturated s			
POLYSORBATE 60	9005-67-8	Sorbitan, monoctadecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	3	5,7
ACRYLATES / DIMETHICONE COPOLYMER				3	6,0
HYDROLYZED SILK	96690-41-4	Protein hydrolyzates, silk	antistatic agents / humectants	3	6,0
STYRENE / ACRYLATES COPOLYMER			opacifiers	3	6,0
COLLAGEN	9007-34-5	Collagens. A fibrous protein comprising one third of the total protein in mammalian organisms. It is a polypeptide containing three peptide chains and rich in proline and hydroxyproline	biological additives	3	6,3
POLYACRYLAMIDE	2594446	2-propenamamide, homopolymer	antistatic agents / binders / film formers	3	6,3
CI 16185	915-67-3, 12227-62-2	Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2, 7-disulphonate; Aluminum, 3-hydroxy-4-(4-sulfo-1-naphthalenyl)azo-2, 7-naphthalenedisulfonic acid complex. This substance is identified in the Colour Index by Colour Index Consti	cosmetic colorants	3	6,7
POLYISOBUTENE	9003-27-4	1-propene, 2-methyl-, homopolymer	binders / film formers / viscosity controlling agents	3	7,0
TEA-CARBOMER			viscosity controlling agents	3	7,0
HYDROLYZED KERATIN	69430-36-0	Keratins, hydrolyzates. A biological material consisting predominantly of partially hydrolyzed keratin	antistatic agents / film formers / humectants	3	7,3
VINYL CAPROLACTAM / PVP / DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	102972-64-5		film formers	3	7,3
PEG-75 LANOLIN	61790-81-6 8039-09-6	Lanolin, ethoxylated	emollients / emulsifying agents / surfactants	3	7,7
PEG-40 CASTOR OIL	61791-12-6	Castor oil, ethoxylated	emulsifying agents / surfactants	3	8,7
BISABOLOL	515-69-5	(R*, R*)-a, 4-dimethyl-a-(4-methyl-3-pentenyl)cyclohex-3-ene-1-methanol	additives	3	9,0
C13-14 ISOPARAFFIN	64365-06-6	Alkanes, iso-, C13-14	emollients / solvents	3	9,0
OCTYLDODECYL NEOPENTANOATE	125496-22-2	Propanoic acid, 2, 2-dimethyl-, 2-octyldodecyl ester	emollients	3	9,0
2-AMINOBUTANOL	96-20-8	2-aminobutan-1-ol	buffering agents	3	9,3
ACETAMIDE MEA	142-26-7	N-2-hydroxyethylacetamide	antistatic agents / humectants	3	9,7
KAOLIN	1332-58-7	Naturally occurring substances, kaolin (CI 77004)	absorbents	3	9,7
C9-11 PARETH-8	68439-46-3	Alcohols, C9-11, ethoxylated	emulsifying agents	3	10,0
CAPRYLYL PYRROLIDONE	2687-94-7	Pyrrolidone, N-octyl-	surfactants	3	10,0
DIISOBUTYL ADIPATE	141-04-8	Diisobutyl adipate	emollients	3	10,0
CHITOSAN	9012-76-4	Chitin, deacylated	biological additives	3	10,3
LAURETH-7	3055-97-8	3, 6, 9, 12, 15, 18, 21-heptaotriacontanol	emulsifying agents / surfactants	3	10,3
QUATERNIUM-27	68122-86-1	Imidazolium compounds, 4, 5-dihydro-1-methyl-2-	antistatic agents	3	10,3

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		nortallow alkyl-1-(2-tallow amidoethyl), Me sulfates			
ETHYL ESTER OF HYDROLYZED SILK			antistatic agents	3	10,7
AMMONIUM BENZOATE	1863-63-4	Ammonium benzoate	preservatives	3	11,0
GLYCERYL STEARATE	31566-31-1	Stearic acid, monoester with glycerol	emollients / emulsifying agents	3	11,0
ETHOXYDIGLYCOL	111-90-0	2-(2-ethoxyethoxy)ethanol	humectants / solvents	3	11,3
SALVIA OFFICINALIS	84082-79-1	Sage, <i>Salvia officinalis</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Salvia officinalis</i> , Lab	botanicals	3	11,7
SODIUM METHYLPARABEN	5026-62-0	Sodium 4-(methoxycarbonyl)phenolate	preservatives	3	11,7
BEHENTRIMONIUM CHLORIDE	17301-53-0	Docosyltrimethylammonium chloride	preservatives	3	12,0
CYCLOHEXYLAMINE	108-91-8 (found)			3	12,0
BEHENTRIMONIUM METHOSULFATE	81646-13-1	Docosyltrimethylammonium methyl sulphate	antistatic agents / surfactants	3	12,3
PEG-20 STEARATE	9004-99-3	Poly(oxy-1, 2-ethanediyl), a-(1-oxooctadecyl)-?-hydroxy-	emulsifying agents / humectants / surfactants	3	12,3
PEG-75 SHEA BUTTER GLYCERIDES			emulsifying agents	3	12,3
POLYSTYRENE	9003-53-6	Benzene, ethenyl-, homopolymer	film formers	3	12,3
CALCIUM PANTOTHENATE	137-08-6, 6381-63-1	Calcium pantothenate, D-form; Calcium (.-.)-N-(2, 4-dihydroxy-3, 3-dimethyl-1-oxobutyl)- α -alaninate	antistatic agents	3	14,3
CINNAMOMUM CAMPHORA				3	14,3
PEG-100 STEARATE	9004-99-3	Poly(oxy-1, 2-ethanediyl), a-(1-oxooctadecyl)-?-hydroxy-	surfactants	3	14,3
QUATERNIUM-87				3	14,7
OCTYL SALICYLATE	118-60-5	2-ethylhexyl salicylate	U.V. absorbers	3	15,0
CAMELIA OLEIFERA		Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Camelia oleifera</i>	botanicals	3	15,3
HAMAMELIS VIRGINIANA	84696-19-5	Hamamelis virginiana, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Hamamelis virginiana</i> , Hamam	botanicals	3	16,3
INOSITOL	87-89-8	Myo-inositol	antistatic agents / humectants	3	17,3
EQUISETUM ARVENSE	71011-23-9	Equisetum arvense, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Equisetum arvense</i> , Equisetacea	botanicals	3	19,3
OENOTHERA BIENNIS	90028-66-3	Evening primrose, <i>Oenothera biennis</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes,	botanicals; emollients	3	19,7

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		terpene-free fractions, distillates, residues, etc., obtained from <i>Oenothera bi</i>			
TUSSILAGO FARFARA	84625-50-3	Tussilago farfara, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Tussilago farfara, Compositae	botanicals	3	20,3
CYMBOPOGON CITRATUS				3	20,7
VISCUM ALBUM	84929-55-5	Viscum album, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Viscum album, Loranthaceae	botanicals	3	21,3
MELISSA OFFICINALIS	84082-61-1	Melissa officinalis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Melissa officinalis, Labiata	botanicals	3	21,7
MALVA SYLVESTRIS	84082-57-5	Mallow, Malva sylvestris, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Malva sylvestris, Malva	botanicals	3	22,3
COLLOIDAL SULFUR		Sulfur and gum arabic	antimicrobials	3	23,3
CUCUMIS SATIVUS	89998-01-6	Cucumber, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Cucumis sativus, Cucurbitaceae	emollients	3	23,7
THIAMINE HCl	67-03-8	Thiamine hydrochloride	biological additives	3	25,3
PEG-12	6790-09-6 25322-68-3	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33-undeca-oxapentatriacontane-1, 35-diol	humectants / solvents	2	1,5
ISOPENTANE	78-78-4	2-methylbutane	propellants / solvents	2	2,0
PEG-9 COCOGLYCERIDES				2	2,0
POLYVINYL CAPROLACTAM				2	2,0
ACRYLATES / t-BUTYLACRYLAMIDE COPOLYMER				2	3,0
POLYQUATERNIUM-37	26161-33-1		antistatic agents / film formers	2	3,0
SODIUM POLYSTYRENE SULFONATE	9003-59-2	Benzenesulfonic acid, ethenyl-, homopolymer, sodium salt	emulsion stabilisers / film formers / surfactants / viscosity controlling agents	2	3,0
PEG-40	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants / solvents	2	4,0
POLYBUTENE	9003-28-5	1-butene, homopolymer	binders / viscosity controlling agents	2	4,0

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ISOCETETH-20			emulsifying agents	2	4,5
PEG-4	112-60-7 25322-68-3	3, 6, 9-trioxaundecane-1, 11-diol	humectants / solvents	2	4,5
PPG-1 TRIDECETH-6			emollients	2	4,5
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	68583-51-7 58748-27-9 9062-04-8	Decanoic acid, mixed diesters with octanoic acid and propylene glycol	emollients	2	4,5
TALLOWTRIMONIUM CHLORIDE	8030-78-2	Quaternary ammonium compounds, trimethyltallow alkyl, chlorides	antistatic agents / preservatives / surfactants	2	4,5
CARTHAMUS TINCTORIUS	8001-23-8	Safflower oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid linoleic. (Carthamus tinctorius, Compositae); Extractives and their physically modified derivatives such as tinctures, concrete	emollients	2	5,0
HEXYLENE GLYCOL	107-41-5	2-methylpentane-2, 4-diol	solvents	2	5,0
HYDROABIETYL ALCOHOL	26266-77-3	[1R-(1a, 4aá, 4ba, 10aa)]-dodecahydro-7-isopropyl-1, 4a-dimethylphenanthren-1-methanol	additives	2	5,0
HYDROGENATED ROSIN				2	5,0
HYDROLYZED WHEAT PROTEIN / PVP CROSSPOLYMER				2	5,0
STYRENE / PVP COPOLYMER	25086-29-7	2-pyrrolidinone, 1-ethenyl-, polymer with ethenylbenzene	film formers / opacifiers	2	5,5
ISOPROPYL STEARATE	112-10-7	Isopropyl stearate	binders / emollients	2	6,0
CERESIN	8001-75-0	Ceresin. A complex combination of hydrocarbons produced by the purification of ozocerite with sulfuric acid and filtration through bone black to form waxy cakes	antistatic agents / binders / emulsion stabilisers / opacifiers / viscosity controlling agents	2	6,5
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / ALGAE / ALOE BARBADENSIS / CHAMOMILE / HENNA / JOJOBA / ROSEMARY / DIMETHICONE COPOLYOL				2	6,5
OLETH-3	9004-98-2	Poly(oxy-1, 2-ethanediy), a-9-octadecenyl-?-hydroxy-	emulsifying agents	2	6,5
SODIUM CHLORIDE	7647-14-5	Sodium chloride	viscosity controlling agents	2	6,5
LANOLIN CERA	68201-49-0	Lanolin, wax. Wax obtained by fractionation of anhydrous lanolin	antistatic agents / emollients /	2	7,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
			emulsifying agents / film formers		
OCTYL PALMITATE	29806-73-3	2-ethylhexyl palmitate	emollients	2	7,0
OLETH-2	9004-98-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-	emulsifying agents / surfactants	2	7,0
OLETH-3 PHOSPHATE	39464-69-2	Poly(oxy-1, 2-ethanediyl), a-9-octadecenyl-?-hydroxy-(Z)-, phosphate	surfactants	2	7,0
GLYOXYLIC ACID	298-12-4	Glyoxylic acid	buffering agents	2	7,5
CI 77491	1309-37-1	Diiron trioxide	cosmetic colorants	2	8,0
ACRYLATES / PVP COPOLYMER	26589-26-4	2-propenoic acid, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone and ethyl 2-methyl-2-propenoate	antistatic agents / binders / film formers	2	8,5
CHAMOMILLA RECUTITA	84082-60-0	Matricaria recutita, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Matricaria recutita, Composi	emollients	2	8,5
2-BROMO-2-NITROPROPANE-1,3-DIOL	52-51-7	Bronopol	preservatives	2	9,0
DEA-OLETH-3 PHOSPHATE	58855-63-3	Ethanol, 2, 2'-iminobis-, compd. with (Z)-, a-9-octadecenyl-, ?-hydroxypoly(oxy-1, 2-ethanediyl), phosphate	emulsifying agents / surfactants	2	9,0
HYDROGENATED TALLOWETH-60 MYRISTYL GLYCOL			emulsifying agents	2	9,0
METHYL GLUCETH-10	68239-42-9	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-, ether with methyl α -d-glucopyranoside (4:1)	emulsifying agents / humectants	2	9,0
PVP / VA				2	9,0
XANTHAN GUM	11138-66-2	Xanthan gum	binders / emulsion stabilisers / viscosity controlling agents	2	9,0
YOGURT	2246366	Naturally occurring substances, milk preparations, yogurt	biological additives	2	9,0
AMP-ISOSTEAROYL HYDROLYZED WHEAT PROTEIN		Protein hydrolyzates, wheat gluten, isostearoyl-, product 2-amino-2-methylpropanol	emulsifying agents	2	9,5
GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	65497-29-2	Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride	antistatic agents / film formers / viscosity controlling agents	2	9,5
OLEYL ALCOHOL	143-28-2	(Z)-octadec-9-enol	emollients / emulsifying agents / opacifiers / viscosity controlling agents	2	9,5
PABA	150-13-0	4-aminobenzoic acid	U.V. absorbers	2	9,5
PEG-45 PALM KERNEL GLYCERIDES			emulsifying agents	2	9,5
POTATO STARCH MODIFIED				2	9,5
SODIUM HYDROXYMETHYLGLYCINATE	70161-44-3	Sodium N-(hydroxymethyl)glycinate	preservatives	2	9,5
TRIDECETH-10	24938-91-8	Poly(oxy-1, 2-ethanediyl), a-tridecyl-?-hydroxy	emulsifying agents	2	9,5
COPERNICIA CERIFERA				2	10,0
HC RED NO. 3	354656	2-(4-amino-2-nitroanilino)ethanol	hair dyes	2	10,0

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HYDROXYLATED LANOLIN	68424-66-8	Lanolin, hydroxylated	antistatic agents / emollients / emulsifying agents / film formers	2	10,0
LINOLENIC ACID	463-40-1 (CIS)	Linolenic acid	antistatic agents / emollients	2	10,0
FLAVOUR				2	10,5
KAWA EXTRACT				2	10,5
PEG-60 ALMOND GLYCERIDES			emulsifying agents	2	10,5
PENTAERYTHRITYL TETRACAPRYLATE / CAPRATE	68441-68-9	Decanoic acid, mixed esters with octanoic acid and pentaerythritol	emollients	2	10,5
2-NITRO-p-PHENYLENEDIAMINE	5307-14-2	2-nitro-p-phenylenediamine (CI 76070)	hair dyes	2	11,0
MAGNESIUM NITRATE	10377-60-3	Magnesium nitrate	additive	2	11,0
MYRISTOYL HYDROLYZED COLLAGEN	72319-06-3	Gelatins, hydrolyzates, myristoyl derivatives	antistatic agents / emollients / surfactants	2	11,0
STEARETH-21	9005-00-9	Poly(oxy-1, 2-ethanediyl), a-octadecyl-?-hydroxy	emulsifying agents / surfactants	2	11,0
LAURYL DIMONIUM HYDROXYPROPYL HYDROLYZED COLLAGEN	118441-80-8	Lamanequat L	antistatic agents / emollients	2	11,5
LINOLEIC ACID	60-33-3 (CIS)	Linoleic acid	antistatic agents / emollients	2	11,5
PEG-10 SOYA STEROL			emulsifying agents	2	11,5
QUILLAIA SAPONARIA	68990-67-0	Quillaja saponaria, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Quillaja saponaria, Rosaceae	botanicals	2	11,5
TRIDECETH-7	24938-91-8		emulsifying agents	2	11,5
WHEAT GERMAMIDOPROPYLDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN			antistatic agents	2	11,5
BASIC YELLOW 57	68391-31-1	3-[(4, 5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-N, N, N-trimethylanilinium chloride (CI 12719)	hair dyes	2	12,0
MAGNESIUM CHLORIDE	7786-30-3	Magnesium chloride	additives	2	12,0
PCA	98-79-3	Pidolic acid	humectants	2	12,0
BHA	25013-16-5	Tert-butyl-4-methoxyphenol	antioxidants	2	12,5
BASIC RED 76	68391-30-0	[7-hydroxy-8-[(2-methoxyphenyl)azo]-2-naphthyl]trimethylammonium chloride (CI 12245)	hair dyes	2	13,0
SORBITAN OLEATE	1338-43-8	Sorbitan oleate	emulsifying agents	2	13,0
STEARYL ALCOHOL	112-92-5	Octadecan-1-ol	emollients / emulsion stabilisers / opacifiers / viscosity controlling agents	2	13,0
ACETYLATED LANOLIN ALCOHOL	61788-49-6	Acetic acid, esters with lanolin alcs	antistatic agents / emollients / emulsifying agents	2	14,0

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BASIC BLUE 99	68123-13-7	3-[(4-amino-6-bromo-5, 8-dihydro-1-hydroxy-8-imino-5-oxo-2-naphthyl)amino]-N, N, N-trimethylanilinium chloride (CI 56059)	hair dyes	2	14,0
CI 60730	4430-18-6	Sodium 4-[(9, 10-dihydro-4-hydroxy-9, 10-dioxo-1-anthryl)amino]toluene-3-sulphonate	cosmetic colorants	2	14,0
DECYL GLUCOSIDE	54549-25-6	Decyl D-glucoside	surfactants	2	14,0
COMMIPHORA MYRRHA	84929-26-0	Commiphora myrrha, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Commiphora myrrha, Burseraceae	botanicals	2	14,5
LACTAMIDE MEA	5422-34-4	N-2-hydroxyethyl lactamide	antistatic agents / humectants	2	14,5
HC YELLOW NO. 5	56932-44-6	2-(2-amino-4-nitroanilino)ethanol	hair dyes	2	15,0
OCIMUM BASILICUM	84775-71-3	Ocimum basilicum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Ocimum basilicum, Labiatae	botanicals	2	15,0
URTICA DIOICA	84012-40-8	Urtica dioica, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Urtica dioica, Urticaceae	botanicals	2	15,0
SESAMUM INDICUM	8008-74-0	Oils, sesame. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, palmitic and stearic. (Sesamum indicum, Pedaliaceae)	emollients; botanicals	2	15,5
BASIC BROWN 16	26381-41-9	[8-[(p-aminophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12250)	hair dyes	2	16,0
CUPRESSUS SEMPERVIRENS	84696-07-1	Cypress, Cupressus sempervirens, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Cupressus semper	botanicals	2	16,0
MAGNESIUM ALUMINUM SILICATE	1327-43-1	Silicic acid, aluminum magnesium salt	absorbents / opacifiers / viscosity controlling agents	2	16,0
VACCINIUM MYRTILLUS	84082-34-8	Vaccinium myrtillus, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Vaccinium myrtillus, Ericaceae	botanicals	2	16,0
HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT PROTEIN			antistatic agents	2	16,5
BASIC BROWN 17	71134-97-9	[8-[(4-amino-2-nitrophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12251)	hair dyes	2	17,0
SACCHARUM OFFICINARUM	91722-22-4	Sugarcane, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Saccharum officinarum, Gramineae	biological additives; botanicals	2	17,0
THYMUS VULGARIS	84929-51-1	Thyme, Thymus vulgaris, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils,	botanicals	2	17,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Thymus vulgaris</i> , Labiatae			
ACER SACCHARINUM		Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Acer saccharinum</i>	biological additives	2	18,0
OLEA EUROPAEA	8001-25-0, 84012-27-1	Olive oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic and palmitic. (<i>Olea europaea</i> , Oleaceae)	emollients / solvents; botanicals	2	18,0
SANTALUM ALBUM	84787-70-2	Sandalwood, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Santalum album</i> , Santalaceae	botanicals	2	18,0
ZINGIBER OFFICINALIS	84696-15-1	Ginger, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Zingiber officinalis</i> , Zingiberaceae	botanicals	2	18,0
BASIC BLUE 9	61-73-4	Methylthioninium chloride (CI 52015)	hair dyes	2	18,5
CITRUS GRANDIS	90045-43-5	Grapefruit, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Citrus paradisi</i> M., Rutaceae	botanicals	2	18,5
POGOSTEMON CABLIN	84238-39-1	Patchouli, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Pogostemon cablin</i> (<i>Pogostemon patchoul</i>)	botanicals	2	19,0
BASIC RED 2	477-73-6	3, 7-diamino-2, 8-dimethyl-5-phenylphenazinium chloride (CI 50240)	hair dyes	2	19,5
HYDROLYZED WHEAT STARCH			viscosity controlling agents	2	19,5
ISOPROPYLPARABEN	4191-73-5	Isopropyl 4-hydroxybenzoate	preservatives	2	20,0
BASIC VIOLET 14	632-99-5	(4-(4-aminophenyl)(4-iminocyclohexa-2, 5-dienylidene)methyl)-2-methylaniline hydrochloride (CI 42510)	hair dyes	2	20,5
CANANGA ODORATA	83863-30-3	Ylang-ylang, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Cananga odorata</i> , Annonaceae	emollients	2	21,0
CI 15985	2783-94-0, 15790-07-5	Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate; Aluminum, 6-hydroxy-5-(4-sulphophenyl)azo-2-naphthalenesulfonic acid complex. This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 159	cosmetic colorants	2	21,0
CI 61570	4403-90-1	Disodium 2, 2'-(9, 10-dioxanthracene-1, 4-diylidimino)bis(5-methylsulphonate)	cosmetic colorants	2	23,0
CARAMEL	8028-89-5	Caramel (color). The substance obtained by controlled heat treatment of food-grade carbohydrates. Food-grade acids, alkalis, and salts may be used to assist caramelization. Food-grade antifoaming agents may be used in an amount not greater than that re	cosmetic colorants	2	25,0

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FACTOR 12				1	1,0
HYDROGENATED COCONUT OIL	84836-98-6	Coconut oil, hydrogenated	emollients	1	1,0
SOYALECITHIN				1	1,0
TRIMETHYLOLPROPANE				1	1,0
ESTER CAPRYLIC				1	2,0
VISCOCITY CONTROLLING AGENT				1	2,0
HYDROFLUOROCARBON 152A	75-37-6	1, 1-difluoroethane	propellants	1	2,0
LINOLEAMIDOPROPYL ETHYLDIMONIUM ETHOSULFATE	99542-23-1	1-propanaminium, N-ethyl-N, N-dimethyl-3-[1-oxo-9, 12-octadecadienylamino]-, ethyl sulfate (salt)	antistatic agents	1	2,0
METHYLAL	109-87-5	Dimethoxymethane	solvents	1	2,0
MUSK KETONE			additives	1	2,0
PEG / PPG 25 / 25 DIMETHICONE / ACRYLATES COPOLYMER				1	2,0
PEG-60	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants	1	2,0
POLYACRYLAMIDOMETHYL PROPANE SULFONIC ACID			film formers	1	2,0
PRUNUS DULCIS	90320-37-9, 8007-69-0	Almond, sweet, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Prunus amygdalus sativa, Rosaceae;	botanicals; emollients	1	2,0
ACETONE	67-64-1	Acetone	denaturants / solvents	1	3,0
ACETYLATED LANOLIN	61788-48-5	Lanolin, acetate	antistatic agents / emollients / emulsifying agents	1	3,0
BUTYL ESTER OF ETHYLENE / MA COPOLYMER			antistatic agents / binders / film formers	1	3,0
CARBOMER 940				1	3,0
CYCLOMETHICONE DIMETHICONOL				1	3,0
DIMETHYL LAURAMINE ISOSTEARATE	70729-87-2	Isooctadecanoic acid, compound with N, N-dimethyldodecylamine (1:1)	emollients	1	3,0
DISODIUM COCOAMPHODIPROPIONATE	68604-71-7, 86438-35-9	Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4, 5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	surfactants	1	3,0
HYDROXYSTEARIC ACID	106-14-9	12-hydroxystearic acid	emulsifying agents	1	3,0
PVP / VINYLCAPROLACTUM / DMAPA ACRYLATES COPOLYMER				1	3,0
PVP COPOLYMER				1	3,0
VITIS VINIFERA	84929-27-1, 8024-22-4	Grape, red, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Vitis vinifera, Vitaceae; Extractives	botanicals; emollients	1	3,0
WATERCRESS EXTRACT				1	3,0

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AMMONIUM LAURYL SULFATE	2235-54-3	Ammonium dodecyl sulphate	surfactants	1	4,0
CAPRYLIC / CAPRIC / STEARIC TRIGLYCERIDE		Octadecanoic acid, mixed triesters with octanoic acid, decanoic acid and 1, 2, 3-propanetriol	emollients / solvents	1	4,0
DIISOPROPYL DIMER DILINOLEATE			emollients	1	4,0
LUVISKOL				1	4,0
POLYSILOXAN				1	4,0
PYRUS MALUS	89957-48-2	Apple, Malus pumila, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Malus pumila, Rosaceae	botanicals	1	4,0
RHUS SUCCEDANEA	103798-70-5	Rhus succedanea, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Rhus succedanea, Anacardiaceae	emollients	1	4,0
VA / CROTONIC ACID COPOLYMER				1	4,0
ALUMINUM DISTEARATE	300-92-5	Hydroxyaluminium distearate	emulsion stabilisers / opacifiers / viscosity controlling agents	1	5,0
AMMONIUM HYDROXIDE	1336-21-6	Ammonia, aqueous solution	buffering agents / denaturants	1	5,0
CALCIUM HYDROXIDE	1305-62-0	Calcium dihydroxide	buffering agents	1	5,0
CANDELILLA CERA	8006-44-8	Candelilla wax. The wax from Euphorbia antisiphylitica or Pedilanthus pavonis, Euphorbiaceae	emollients / film formers	1	5,0
CELETH-20				1	5,0
COCO-CAPRYLATE / CAPRATE		Alcohols, coco, mixed esters with octanoic and decanoic acids	emollients	1	5,0
EMULSIFYING WAX NF				1	5,0
ISOPROPYL LANOLATE	63393-93-1	Fatty acids, lanolin, iso-Pr esters	antistatic agents / emollients / emulsifying agents	1	5,0
METHYL HYDROGENATED ROSINATE	8050-15-5 8050-13-3	Resin acids and Rosin acids, hydrogenated, Me esters	film formers	1	5,0
NIPASEPT SODIUM				1	5,0
NONOXYNOL-10	27177-08-8 9016-45-9	29-(nonylphenoxy)-3, 6, 9, 12, 15, 18, 21, 24, 27-nonaoxanonacosanol	emulsifying agents	1	5,0
OLEAMIDOPROPYL PG-DIMONIUM CHLORIDE		1-propanaminium, 3-[(1-oxo-9-octadecenyl)amino]-N-(2, 3-dihydroxypropyl)-N, N-dimethyl-, chloride	antistatic agents	1	5,0
PEG-2 DIMEADOWFOAM AMIDOETHYLMONIUM METHOSULFATE				1	5,0
POLYOXYL 40				1	5,0
POLYQUATERNIUM				1	5,0
POLYSILICONE-11				1	5,0
POLYSORBATE 40	9005-66-7	Sorbitan, monohexadecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	1	5,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
POLYVINYL ALCOHOL	9002-89-5	Ethenol, homopolymer	film formers / viscosity controlling agents	1	5,0
SOLUBLE COLLAGEN			antistatic agents / film formers / humectants	1	5,0
BERTHOLLETIA EXCELSA			solvents	1	6,0
CALCIUM CARBONATE	471-34-1	Calcium carbonate	abrasives / buffering agents / opacifiers / oral care agents	1	6,0
CALENDULA OFFICINALIS	84776-23-8	Calendula officinalis, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Calendula officinalis, Com	emollients	1	6,0
CETEARYL OCTANOATE	90411-68-0 59130-70-0	Hexanoic acid, 2-ethyl-, C16-18-alkyl esters	emollients	1	6,0
CI 42051	3536-49-0	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2', 4'-disulphonatobenzhydrylidene]cyclohexa-2, 5-dien-1-ylidene]diethylammonium], calcium salt	cosmetic colorants	1	6,0
COCO-BETAINE	68424-94-2	Betaines, coco alkyldimethyl	surfactants	1	6,0
DIISOPROPYL ADIPATE	6938-94-9	Diisopropyl adipate	emollients	1	6,0
DIISOSTEAROYL TRIMETHYLOLPROPANE SILOXY SILICATE			additives	1	6,0
HELIANTHUS ANNUUS	84776-03-4	Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Helianthus annuus; Oils, sunflower, unsaponifiables fr	botanicals; emollients	1	6,0
HYDROXYETHYL CETYLDIMONIUM PHOSPHATE	85563-48-0	Hexadecyl(2-hydroxyethyl)dimethylammonium dihydrogen phosphate	antistatic agents / surfactants	1	6,0
HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE			antistatic agents	1	6,0
ISOSTEARETH-10	52292-17-8	Poly(oxy-1, 2-ethanediyl), a-isoctadecyl-?-hydroxy-	emulsifying agents	1	6,0
ISOSTEARYL PALMITATE	72576-80-8	Isoctadecyl palmitate	emollients	1	6,0
MYRISTAMINE OXIDE	3332-27-2	N, N-dimethyltetradecylamine N-oxide	antistatic agents / emulsifying agents / surfactants	1	6,0
PEG / PPG-14 / 4 DIMETHICONE				1	6,0
PEG-150 / STEARYL ALCOHOL / SMDI COPOLYMER				1	6,0
PHOSPHATE				1	6,0
PPG-20 METHYL GLUCOSE ETHER	61849-72-7	Poly[oxy(methyl-1, 2-ethanediyl)], a-hydro-?-hydroxy-, ether with methyl á-d-glucopyranoside (4:1)	antistatic agents / binders / humectants	1	6,0
THYMUS HYDROLYSATE	91080-11-4	Protein hydrolyzates, thymus gland. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of thymus gland composed primarily of amino acids, peptides, and proteins. It may	biological additives	1	6,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		contain impurities consisting chiefly of carbohydrates and lipids along w			
TRIBEHENIN	18641-57-1	Propane-1, 2, 3-triyl tridocosanoate	emollients	1	6,0
VA / CROTONATES / NEODECANOATE COPOLYMER				1	6,0
AMODIMETHICONE CETRIUM CHLORIDE				1	7,0
CETETH-20	9004-95-9	Poly(oxy-1, 2-ethanediyl), a-hexadecyl-?-hydroxy-	emulsifying agents / surfactants	1	7,0
DIMETHICONE COPOLYOL ACETATE			humectants	1	7,0
DIPHENYL DIMETHICONE			emulsifying agents	1	7,0
DMHF	9065-13-8	Formaldehyde, polymer with 5, 5-dimethyl-2, 4-imidazolidinedione	antimicrobials / film formers	1	7,0
ETHYLHEXYL STEARATE				1	7,0
HYDROGENATED BUTYLENE / ETHYLENE / STYRENE COPOLYMER			emollients / viscosity controlling agents	1	7,0
HYDROLYZED VEGETABLE PROTEIN	100209-45-8	Protein hydrolyzates, vegetable. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of mixed vegetables composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along	antistatic agents	1	7,0
IMIDAZOLIDINYL UREA	39236-46-9	N, N"-methylenebis[N'-[3-(hydroxymethyl)-2, 5-dioximidazolidin-4-yl]urea]	preservatives	1	7,0
OCTYL STEARATE	22047-49-0	2-ethylhexyl stearate	emollients	1	7,0
PEG-40 SORBITAN LANOLATE	8036-77-9	G 1441	emulsifying agents	1	7,0
POLYLENE GLYCOL				1	7,0
QUATERNIUM-79 HYDROLYZED SOY PROTEIN			antistatic agents	1	7,0
SILICA	7631-86-9 112945-52-5	Silicon dioxide	abrasives / absorbents / opacifiers / viscosity controlling agents	1	7,0
SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER				1	7,0
SORBITAN STEARATE	1338-41-6	Sorbitan stearate	emulsifying agents	1	7,0
STEARETH-10 ALLYL ETHER / ACRYLATES COPOLYMER			film formers	1	7,0
TRIDECETH-9	24938-91-8	Poly(oxy-1, 2-ethanediyl), a-tridecyl-?-hydroxy	emulsifying agents	1	7,0
TRILAURETH-4 PHOSPHATE	31800-90-5	Poly(oxy-1, 2-ethanediyl), a, a', a"-phosphinylidynetris-?-(dodecyloxy)-	emulsifying agents	1	7,0
TUMERIC ROOT				1	7,0
WHEAT GERMAMIDOPROPYLAMINE OXIDE		Amides, wheat germ, N-(3-dimethylaminopropyl)-N-oxides	antistatic agents / surfactants	1	7,0
WHEATGERMAMIDOPROPYL ETHYLDIMONIUM ETHOSULFATE		1-propanaminium, N-ethyl-N, N-dimethyl-3-amino-, N-wheat germ acyl derivs., ethyl sulfates	antistatic agents	1	7,0
C18-36 ACID GLYCOL ESTER	94944-95-3	Fatty acids, C18-36, esters with ethylene glycol	emollients	1	8,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
CETEARETH-6	68439-49-6		emulsifying agents	1	8,0
DAUCUS CAROTA	84929-61-3	Carrot, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Daucus carota</i> , Umbelliferae	emollients	1	8,0
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL / GLUTAMINE / TYROSINE / LEUCINE / CYSTEINE / GLYSINE / COMFREY / PLANTAIN / HYDROLYZED WHEAT PROTEIN / DIMETHICONE COPOLYOL				1	8,0
HYDROGENATED ETHYLENE / PROPYLENE / STYRENE COPOLYMER			emollients / viscosity controlling agents	1	8,0
ISOHEXADECANE	4390-04-9 60908-77-2	2, 2, 4, 4, 6, 8, 8-heptamethylnonane	emollients / solvents	1	8,0
ISOPROPYL C12-15-PARETH-9 CARBOXYLATE			emollients	1	8,0
ORYZA SATIVA	9005-25-8, 68553-81-1, 90106-37-9, 90106-37-9	Starch. High-polymeric carbohydrate material usually derived from cereal grains such as corn, wheat and sorghum, and from roots and tubers such as potatoes and tapioca. Includes starch which has been pregelatinized by heating in the presence of water	absorbents / binders / viscosity controlling agents; emollients; botanicals	1	8,0
PEG-5 OCTANOATE			emulsifying agents	1	8,0
QUATERNIUM-70	68921-83-5	Dimethyl[3-[(1-oxooctadecyl)amino]propyl][2-oxo-2-(tetradecyloxy)ethyl]ammonium chloride	antistatic agents	1	8,0
SODIUM PALMITATE	408-35-5	Sodium palmitate	emulsifying agents / surfactants / viscosity controlling agents	1	8,0
t-BUTYL ALCOHOL	75-65-0	2-methylpropan-2-ol	denaturants / solvents	1	8,0
TRIDECYL STEARATE	31556-45-3	Tridecyl stearate	emollients	1	8,0
WHEAT AMINO ACIDS		Amino acids, wheat	botanicals	1	8,0
WHEAT GERM EXTRACT				1	8,0
ALGAE			botanicals	1	9,0
ALLANTOIN	97-59-6	Allantoin	oral care agents	1	9,0
BUTYL METHOXYDIBENZOYLMET HANE	70356-09-1	1-[4-(1, 1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1, 3-dione	U.V. absorbers	1	9,0
CETEARETH-12	68439-49-6		emulsifying agents	1	9,0
CETRIMONIUM BROMIDE	57-09-0	Cetrimonium bromide	preservatives	1	9,0
CI 77499	1317-61-9	Triiron tetraoxide	cosmetic colorants	1	9,0
CORN FLOWER EXTRACTS				1	9,0
DIPENTAERYTHRITYL HEXACAPRYLATE / HEXACAPRATE	68130-24-5	Decanoic acid, ester with 2, 2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1, 3-propanediol] octanoate pentanoate	emulsifying agents	1	9,0
DISTEAROYLETHYL HYDROXYETHYLAMONIUM METHOSULFATE			antistatic agents	1	9,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
DISTEARYL DIMONIUM CHLORIDE	107-64-2	Dimethyloctadecylammonium chloride	antistatic agents	1	9,0
GLYCINE SOJA	8001-22-7, 9010-10-0, 91770-67-1, 68513-95-1, 84776-91-0	Soybean oil. Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, palmitic and stearic. (Soja hispida, Leguminosae)	emollients, botanicals	1	9,0
HYDROGEN PEROXIDE	7722-84-1	Hydrogen peroxide	oxidising agents	1	9,0
HYDROLYZED WHEAT GLUTEN			botanicals	1	9,0
HYDROXYPROPYL BISSTEARYL DIMONIUM CHLORIDE		1, 3-propanediaminium, 2-hydroxy-N, N'-bis(octadecyl)-N, N', N'-tetramethyl-, chloride	antistatic agents	1	9,0
LINOLEAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE		1-propanaminium, 2, 3-dihydroxy-N, N-dimethyl-N-[3-(1-oxo-9, 12-octadecadienylamino)propyl]-, 3-phosphate triester, trichloride	antistatic agents	1	9,0
MICROWAX 80				1	9,0
PANTHENYL HYDROXYPROPYL STEARDIMONIUM CHLORIDE		1-octadecanaminium, N, N-dimethyl-N-[2-hydroxy-3-[2, 2-dimethyl-3-hydroxy-4-oxo-4-(3-hydroxypropyl)amino]butyl]-, chloride	antistatic agents	1	9,0
POLYQUATERNIUM-7	26590-05-6	2-propen-1-aminium, N, N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide	antistatic agents / film formers	1	9,0
QUATERNIUM-26	68953-64-0	1-Propanaminium, 3-amino-N-(2-hydroxyethyl)-N, N-dimethyl-, N-mink-oil acyl derivs., chlorides	antistatic agents	1	9,0
SODIUM COCOYL HYDROLYZED SOY PROTEIN			antistatic agents / surfactants	1	9,0
SODIUM STYRENE / PEG-10 MALEATE / NONOXYNOL-10 MALEATE / ACRYLATES COPOLYMER			opacifiers	1	9,0
STEARYL HEPTANOATE	66009-41-4	Octadecyl heptanoate	emollients	1	9,0
TRIDECETH-3 CARBOXYLIC ACID	24938-91-8 68412-55-5		surfactants	1	9,0
AESCLUSUS HIPPOCASTANUM	8053-39-2	Horse chestnut, Aesculus hippocastanum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Aesculus	botanicals	1	10,0
CETYL ACETATE	629-70-9	Hexadecyl acetate	emollients	1	10,0
CI 77947	1314-13-2	Zinc oxide	cosmetic colorants	1	10,0
COCODIMONIUM HYDROXYPROPYL SILK AMINO ACIDS			antistatic agents / surfactants	1	10,0
HYDROLYZED PROTEIN				1	10,0
LECITHIN	8002-43-5	Lecithins. The complex combination of diglycerides of fatty acids linked to the choline ester of phosphoric acid	antistatic agents / emollients / emulsifying agents	1	10,0
PEG-150 PENTAERYTHRITYL TETRASTEARATE			emulsifying agents	1	10,0
PHYTANTRIOL	74563-64-7	3, 7, 11, 15-tetramethylhexadecane-1, 2, 3-triol	biological additives	1	10,0
PPG-10 METHYL GLUCOSE ETHER	61849-72-7	Poly[oxy(methyl-1, 2-ethanediyl)], a-hydro-?-hydroxy-, ether with methyl α -D-glucopyranoside (4:1)	emollients	1	10,0
PPG-3 MYRISTYL ETHER	63793-60-2	Poly[oxy(methyl-1, 2-ethanediyl)], a-tetradecyl-?-	emollients /	1	10,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
		hydroxy-	emulsifying agents		
SACCHAROMYCES / SILICON FERMENT				1	10,0
SODIUM PCA	28874-51-3, 54571-67-4	Sodium 5-oxo-L-prolinate	antistatic agents / humectants	1	10,0
STEARYL CAPRYLATE	18312-31-7	Octadecyl octanoate	emollients	1	10,0
ACRYLATES / STEARETH-20 METHACRYLATE COPOLYMER		Stearyl alcohol, product with oxirane, butenoate ester, polymer with propenoic acid, butenoic acid, and/or alkyl propenoates	viscosity controlling agents	1	11,0
BENZOPHENONE-2	131-55-5	2, 2', 4, 4'-tetrahydroxybenzophenone	U.V. absorbers	1	11,0
CI 69800	81-77-6	6, 15-dihydroanthrazine-5, 9, 14, 18-tetrone	cosmetic colorants	1	11,0
HEXAMIDINE PARABEN	93841-83-9	p-hydroxybenzoic acid, compound with p, p'-(hexane-1, 6-diylbis(oxy))bis(benzamidine) (2:1)	preservatives	1	11,0
HYDROLYZED COLLAGEN	92113-31-0 9015-54-7	Collagens, hydrolyzates. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of hoofs and horns composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along with small	antistatic agents / emollients / film formers / humectants	1	11,0
HYDROLYZED SOY PROTEIN	68607-88-5	Protein hydrolyzates, soya. Substance obtained by acidic, alkaline, or enzymatic hydrolysis of soya composed primarily of amino acids, peptides, and proteins. It may contain impurities consisting chiefly of carbohydrates and lipids along with smaller quantities	antistatic agents / humectants	1	11,0
LAURYL ALCOHOL	112-53-8	Dodecan-1-ol	emollients / emulsion stabilisers / viscosity controlling agents	1	11,0
LAURYL METHYL GLUCETH-10 HYDROXYPROPYLDIMONIUM CHLORIDE			antistatic agents	1	11,0
NITROMETHANE	75-52-5	Nitromethane	anticorrosives	1	11,0
PEG-32	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydroxy-?-hydroxy-	humectants / solvents	1	11,0
SACCHAROMYCES / MAGNESIUM FERMENT				1	11,0
COCODIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN			antistatic agents	1	12,0
DEA-OLETH-10 PHOSPHATE	58855-63-3	Ethanol, 2, 2'-iminobis-, compd. with (Z)-, a-9-octadecenyl-, ?-hydroxypoly(oxy-1, 2-ethanediyl), phosphate	emulsifying agents / surfactants	1	12,0
GLYCINE	56-40-6	Glycine	antistatic agents / buffering agents	1	12,0
HYDROLYZED MUCOPOLYSACCHARIDES				1	12,0
KERATIN	68238-35-7	Keratins. Natural, fibrous proteins occurring in vertebrates. They contain all of the common amino acids and are characterized by high cystine content	biological additives	1	12,0
NONOXYNOL-14	9016-45-9	Poly(oxy-1, 2-ethanediyl), a-(nonylphenyl)-?-hydroxy-	emulsifying agents / surfactants	1	12,0
POTASSIUM HYDROXIDE	1310-58-3	Potassium hydroxide	buffering agents	1	12,0
POTATO FLAKES				1	12,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
SACCHAROMYCES / COPPER FERMENT				1	12,0
SERENOA SERRULATA	84604-15-9	Sabal serrulatum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Sabal serrulatum, Palmae	botanicals	1	12,0
SODIUM STYRENE / ACRYLATES COPOLYMER			film formers	1	12,0
ALANINE	56-41-7, 302-72-7	L-alanine, DL-alanine	antistatic agents	1	13,0
CI 77492	1332-37-2	Iron oxide	cosmetic colorants	1	13,0
COCAMIDOPROPYL HYDROXSULTAINE	68139-30-0	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, N-dimethyl-3-sulfo-, N-coco acyl derivs., hydroxides, inner salts	surfactants	1	13,0
PEG-6 CAPRYLIC / CAPRIC GLYCERIDES			emulsifying agents	1	13,0
PEG-6 COCAMIDE	61791-08-0	Fatty acids, coco, reaction products with ethanolamine, ethoxylated	emulsifying agents / surfactants	1	13,0
QUATERNIUM-79 HYDROLYZED KERATIN			antistatic agents	1	13,0
ROSA CANINA	84696-47-9, 84603-93-0	Rose, Rosa canina, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Rosa canina, Rosaceae	botanicals; emollients	1	13,0
SACCHAROMYCES / IRON FERMENT				1	13,0
SHEA BUTTER				1	13,0
SODIUM METABISULFITE	7681-57-4	Disodium disulphite	preservatives	1	13,0
STEARALKONIUM CHLORIDE	122-19-0	Benzyl dimethyl(octadecyl) ammonium chloride	preservatives	1	13,0
BENZALKONIUM CHLORIDE	63449-41-2 8001-54-5	Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	preservatives	1	14,0
CINNAMIDOPROPYL TRIMONIUM CHLORIDE				1	14,0
GLYCYRRHIZIC ACID	1405-86-3	Glycyrrhizic acid	humectants	1	14,0
HYALURONIC ACID	9004-61-9	Hyaluronic acid	antistatic agents / humectants	1	14,0
PEG-45M	25322-68-3	Poly(oxy-1, 2-ethanediyl), a-hydro-?-hydroxy-	humectants	1	14,0
PELVETIA DIGITATA				1	14,0
PROLINE	147-85-3, 609-36-9	L-proline	antistatic agents	1	14,0
SACCHAROMYCES / ZINC FERMENT				1	14,0
WHEAT GERM GLYCERIDES	68990-07-8	Glycerides, wheat germ-oil mono-, di- and tri-	emollients	1	14,0
EDTA	60-00-4	Edetic acid	chelating agents	1	15,0
EUCALYPTUS GLOBULUS	84625-32-1	Eucalyptus globulus, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Eucalyptus globulus, Myrtace	botanicals	1	15,0
LAMINARIA DIGITATE				1	15,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
LANETH-10	61791-20-6	Alcohols, lanolin, ethoxylated	emulsifying agents / viscosity controlling agents	1	15,0
PPG-12-PEG-50 LANOLIN	68458-88-8	Lanolin, ethoxylated, propoxylated	emollients / emulsifying agents	1	15,0
SERINE	56-45-1, 302-84-1, 312-84-5	L-serine	antistatic agents	1	15,0
SULFUR	7704-34-9	Sulphur	antidandruffs agents / antistatic agents	1	15,0
TRIMETHYLSILYLAMODIMETHICONE			antistatic agents / emollients	1	15,0
ALTHEA OFFICINALIS	73049-65-7	Marshmallow (<i>Althaea officinalis</i>), ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Althaea officinalis</i>	emollients	1	16,0
CITRUS AURANTIFOLIA	89997-76-2	Citrus limetta, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Citrus limetta</i> , Rutaceae	botanicals	1	16,0
HYDRASTIS CANADENSIS	84603-60-1	Golden seal, <i>Hydrastis canadensis</i> , ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from <i>Hydrastis cana</i>	botanicals	1	16,0
MEADOWFOAM SEED OIL				1	16,0
OCTOXYNOL-40	9002-93-1	Poly(oxy-1, 2-ethanediyl), a-[4-(1, 1, 3, 3-tetramethylbutyl)phenyl]-?-hydroxy-	emulsifying agents / surfactants	1	16,0
SIMETHICON				1	16,0
SIMETHICONE	8050-81-5		emollients	1	16,0
SODIUM BISULFITE	7631-90-5	Sodium hydrogensulphite	preservatives	1	16,0
THREONINE	72-19-5, 80-68-2	L-threonine	antistatic agents	1	16,0
VINYLPYRROLIDONE	25086-89-9			1	16,0
ARGININE	74-79-3, 7002-25-1	Arginine, DL-arginine	antistatic agents	1	17,0
ISOLAURETH-6			emulsifying agents	1	17,0
LACTIC ACID	50-21-5	Lactic acid	buffering agents / humectants	1	17,0
ORANGE PEEL WAX		Waxes, orange peel	emollients	1	17,0
ORYZANOL	11042-64-1	(?)-oryzanol	antistatic agents	1	17,0
PEG-150 DISTEARATE	2595268	Poly(oxy-1, 2-ethanediyl), a-(1-oxooctadecyl)-?-(1-oxooctadecyl)oxy]-	emulsifying agents / surfactants / viscosity controlling agents	1	17,0
TRIETHYLENE GLYCOL	112-27-6	2, 2'-(ethylenedioxy)diethanol	solvents	1	17,0
TRITICUM SATIVUM VULGARE				1	17,0
CI 42600	2390-59-2 (Was found)			1	18,0
CHLORPHENESIN	104-29-0	Chlorphenesin	preservatives	1	18,0

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Is in number of products	Average ranking
COCAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE		Phosphoric acid, triester with N-(2, 3-dihydroxypropyl)-N, N-dimethyl-3-[(1-oxococoalkyl)amino-1-propanaminium chloride	antistatic agents	1	18,0
HOPS EXTRACT				1	18,0
I.P.M.				1	18,0
LYSINE	56-87-1, 70-54-2	L-lysine	antistatic agents	1	18,0
PVM / MA DECADIENE CROSSPOLYMER	136392-67-1		binders	1	18,0
DIMETHICONAL				1	19,0
GLUCOSAMINE HCl	66-84-2	Glucosamine hydrochloride	antistatic agents	1	19,0
GLUTAMIC ACID	56-86-0, 617-65-2	Glutamic acid; DL-glutamic acid monohydrate	antistatic agents / humectants	1	19,0
HYPERICUM PERFORATUM	84082-80-4	St.-John's-wort, Hypericum perforatum, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Hypericu	botanicals	1	19,0
NETTLE EXTRACT				1	19,0
PEG-5M	25322-68-3	Poly(oxy-1, 2-ethanediy), a-hydro-?-hydroxy-	binders / emulsion stabilisers / viscosity controlling agents	1	19,0
STEARDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN			antistatic agents	1	19,0
CI 16035	25956-17-6	Disodium 6-hydroxy-5-[(2-methoxy-4-sulphonato-m-tolyl)azo]naphthalene-2-sulphonate	cosmetic colorants	1	20,0
LEMONGRASS EXTRACT				1	20,0
ASCORBIC ACID	50-81-7	Ascorbic acid	antioxidants / buffering agents	1	21,0
CI 15510	633-96-5	Sodium 4-[(2-hydroxy-1-naphthyl)azo]benzenesulphonate; Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, Al-lake	cosmetic colorants	1	21,0
SQUALENE	111-02-4	2, 6, 10, 15, 19, 23-hexamethyltetracos-2, 6, 10, 14, 18, 22-hexaene	antistatic agents / emollients	1	21,0
CI 42520	3248-91-7	4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2, 5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride	cosmetic colorants	1	22,0
CHLOROACETAMIDE	79-07-2	2-chloroacetamide	preservatives	1	22,0
CERAMIDE 2				1	28,0

List of the prioritized substances for a screening for environmental and health effects in alphabetical order

This enclosure is a list of the approximately 160 chemical substances for which a screening for environmental and health effects has been carried out. At the same time the enclosure states the result of the screening for environmental and health effects for the selected chemical substances. The substances are sorted after INCI name in alphabetical order.

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
2-AMINOBUTANOL	96-20-8	2-aminobutan-1-ol	buffering agents	None	Xn, R43	4		2	-
2-BROMO-2-NITROPROPANE-1,3-DIOL	52-51-7	Bronopol	preservatives	Xn, R21/22; Xi, R37/38, R41; N R50, R53		4	LD50 = R25, Eye and skin irritant	4	4
2-NITRO-p-PHENYLENEDIAMINE	5307-14-2	2-nitro-p-phenylenediamine (CI 76070)	hair dyes	None	Xn, R40 (C3), R43, R52/53	8	Carc3, Exp. Reproductive and mutagen effects	1	4
ACETONE	67-64-1	Acetone	denaturants / solvents	F, R11; Xi, R36, R66, R67		1	Skin and severe eye irritant	0	1
ACRYLATES COPOLYMER	25133-97-5	2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate	antistatic agents / binders / film formers	None	None	-		2	4
ALCOHOL DENAT.	64-17-5	Ethanol	solvents	F; R11		1	Carc1 (alcohol drinking), A skin irritant	0	1
AMINOMETHYL PROPANOL	124-68-5	2-amino-2-methylpropanol	buffering agents	Xi, R36/38, R52/53		1	Irritant	1	1
AMMONIUM BENZOATE	1863-63-4	Ammonium benzoate	preservatives	None	None	1	Eye and skin irritant	1	-
AMODIMETHICONE	Was not found		antistatic agents	None	None	-		2	4
ASCORBIC ACID	50-81-7	Ascorbic acid	antioxidants / buffering agents	None	None	4	Cases of allergy, Eye and skin irritant	1	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
BASIC BLUE 9	61-73-4	Methylthionium chloride (CI 52015)	hair dyes	None	None	8	Mutagenic in cultured mammalian cells	1	-
BASIC BLUE 99	68123-13-7	3-[(4-amino-6-bromo-5, 8-dihydro-1-hydroxy-8-imino-5-oxo-2-naphthyl)amino]-N, N, N-trimethylanilinium chloride (CI 56059)	hair dyes	None	None	-		-	-
BASIC BROWN 16	26381-41-9	[8-[(p-aminophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12250)	hair dyes	None	None	-		-	-
BASIC BROWN 17	71134-97-9	[8-[(4-amino-2-nitrophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12251)	hair dyes	None	None	-		-	-
BASIC RED 2	477-73-6	3, 7-diamino-2, 8-dimethyl-5-phenylphenazinium chloride (CI 50240)	hair dyes	None	None	1	Injurous to human eye	2	-
BASIC RED 76	68391-30-0	[7-hydroxy-8-[(2-methoxyphenyl)azo]-2-naphthyl]trimethylammonium chloride (CI 12245)	hair dyes	None	None	-		-	-
BASIC VIOLET 14	632-99-5	(4-(4-aminophenyl)(4-iminocyclohexa-2, 5-dienylidene)methyl)-2-methylaniline hydrochloride (CI 42510)	hair dyes	None	None	8	Exp. mutagen. May cause allerlic reactions.	2	-
BASIC YELLOW 57	68391-31-1	3-[(4, 5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-N, N, N-trimethylanilinium chloride (CI 12719)	hair dyes	None	None	-		-	-
BEHENTRIMONIUM CHLORIDE	17301-53-0	Docosyltrimethylammonium chloride	preservatives	None	None	-		4	4
BENZALKONIUM CHLORIDE	63449-41-2, 8001-54-5	Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	preservatives	None	None	4	Skin and severe eye irritant. Can cause allergic reactions.	4	4
BENZOIC ACID	65-85-0	Benzoic acid	preservatives	None	None	4	Skin irritant. May cause allergic dermatitis.	0	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
BENZOPHENONE-3	131-57-7	Oxybenzone	U.V. absorbers	None	Xn, R43	4	Allergic contact dermatitis.	4	4
BENZOPHENONE-4	4065-45-6	Sulisobenzone	U.V. absorbers	Nothing found	Nothing found	-		4	4
BENZYL ALCOHOL	100-51-6	Benzyl alcohol	preservatives / solvents	Xn; R20/22		4	Mild skin irritant. Allergic effects has been seen.	0	1
BHA	25013-16-5	Tert-butyl-4-methoxyphenol	antioxidants	None	None	8	Produces allergic contact dermatitis. Carc2B	2	4
BHT	128-37-0	2, 6-di-tert-butyl-P-cresol	antioxidants	None	Xn R22, N 50/53	1	Carc3 (no data), Eye irritant.	4	4
BUTANE	106-97-8	Butane	propellants	F+; R12		1	Mild skin irritant	0	1
BUTYL METHOXYDIBENZOYLMETHANE	70356-09-1	1-[4-(1, 1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1, 3-dione	U.V. absorbers	None	None	-		4	4
BUTYLENE GLYCOL	107-88-0	Butane-1, 3-diol	humectants / solvents	None	None	1	Eye irritant	0	1
BUTYLPARABEN	94-26-8	Butyl 4-hydroxybenzoate	preservatives	None	N, R51/53 (Ref 10)	1	Can be irritating or give allergy but rarely seen	2	4
CALCIUM CARBONATE	471-34-1	Calcium carbonate	abrasives / buffering agents / opacifiers / oral care agents	None	None	1	Eye irritant	0	1
CALCIUM HYDROXIDE	1305-62-0	Calcium dihydroxide	buffering agents	None	None	1	Skin irritant	1	1
CALCIUM PANTOTHENATE	137-08-6, 6381-63-1	Calcium pantothenate , D-form; Calcium (+.-)-N-(2, 4-dihydroxy-3, 3-dimethyl-1-oxobutyl)-á-alaninate	antistatic agents	None	None	-		4	1
CAPRYLYL PYRROLIDONE	2687-94-7	Pyrrolidone, N-octyl-	surfactants	C, R34; N, R51-53		4		2	4
CARBOMER	9007-20-9, 9003-01-4	Carbomer	emulsion stabilisers / viscosity controlling agents	None	None	-	Carc3 (no data)	2	4
CETRIMONIUM BROMIDE	57-09-0	Cetrimonium bromide	preservatives	None	None	-		-	1
CETRIMONIUM CHLORIDE	112-02-7	Cetrimonium chloride	preservatives	None	None	1	Eye irritant (vapours)	4	4
CETYL ALCOHOL	36653-82-4	Hexadecan-1-ol	emollients / emulsifying agents / opacifiers / viscosity controlling agents	None	N, R51/53	1	Skin irritant	1	4
CHLOROACETAMIDE	79-07-2	2-chloroacetamide	preservatives	Repr. Carc		8		?	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
					3, R62: T, R25, R43				
CHLORPHENESIN	104-29-0	Chlorphenesin	preservatives	None	Xn R22, R43	4		-	-
CI 15510	633-96-5	Sodium 4-[(2-hydroxy-1-naphthyl)azo]benzenesulphonate; Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, Al-lake	cosmetic colorants	None	None	-		0	1
CI 15985	2783-94-0, 15790-07-5	Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate; Aluminum, 6-hydroxy-5-(4-sulfophenyl)azo-2-naphthalenesulfonic acid complex. This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 159	cosmetic colorants	None	None	0	Carc3 (inadequate data)	2	1
CI 16185	915-67-3, 12227-62-2	Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2, 7-disulphonate; Aluminum, 3-hydroxy-4-(4-sulfo-1-naphthalenyl)azo-2, 7-naphthalenedisulfonic acid complex. This substance is identified in the Colour Index by Colour Index	cosmetic colorants	None	None	8	Carc3, some exp. carcinogen and reproductive effects	1	1
CI 17200	3567-66-6	Disodium 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate; 2, 7-naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(3-phenylazo)-, Al-lake	cosmetic colorants	None	None	-		-	-
CI 18050	3734-67-6	Disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate	cosmetic colorants	None	Xn, R43	4		-	-
CI 19140	1934-21-0, 12225-21-7, 97375-39-8	Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate; Aluminum, 4, 5-	cosmetic colorants	None	None	-		2	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		dihydro-5-oxo-1-(4-sulfophenyl)-4-(4-sulfophenyl)azo-1H-pyrazole-3-carboxylic acid complex. This substance is identified in the Colour							
CI 42051	3536-49-0	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2', 4'-disulphonatobenzhydrylidene]cyclohexa-2, 5-dien-1-ylidene]diethylammonium], calcium salt	cosmetic colorants	None	None	-		-	-
CI 42090	2650-18-2, 3844-45-9, 68921-42-6	Diammonio(ethyl)[4-[[4-[ethyl(3-sulphonatobenzyl)amino]phenyl](2-sulphonatophenyl)methylene]cyclohexa-2, 5-dien-1-ylidene](3-sulphonatobenzyl)ammonium; Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino]-2'-sulphonatobenzhydrylidene]cy	cosmetic colorants	None	None	-	Carc3 (no data)	-	-
CI 42520	3248-91-7	4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2, 5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride	cosmetic colorants	None	None	-	Carc3 (inadequate evidence), Magenta containing Basic Red 9 is possibly carcinogenic	-	-
CI 42600	2390-59-2 (Was found)			None	None	-		-	-
CI 42735	6505-30-2	Hydrogen [4-[[4-(diethylamino)phenyl][4-[ethyl(3-sulphonatobenzyl)amino]-o-tolyl]methylene]-3-methylcyclohexa-2, 5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt	cosmetic colorants	None	None	-		-	-
CI 47000	8003-22-3	1, 3-Isobenzofurandione, reaction products with methylquinoline and quinoline. This substance is identified in the Colour Index by Colour Index	cosmetic colorants	None	None	-		4	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		Constitution Number, C.I. 47000							
CI 47005	94891-32-4, 8004-92-0	Aluminum, 2-(1, 3-dihydro-1, 3-dioxo-2H-inden-2-ylidene)-1, 2-dihydro-6, 7-quinolinedisulfonate complexes	cosmetic colorants	None	None	-		-	-
CI 60725	81-48-1	1-hydroxy-4-(p-toluidino)anthraquinone	cosmetic colorants	None	Xn R43; N R51/53	4	Allergic reactions seen, May cause skin irritations	2	4
CI 60730	4430-18-6	Sodium 4-[(9, 10-dihydro-4-hydroxy-9, 10-dioxo-1-anthryl)amino]toluene-3-sulphonate	cosmetic colorants	None	None	-		-	-
CI 61565	128-80-3	1, 4-bis(p-tolylamino)anthraquinone	cosmetic colorants	None	None	-		-	-
CI 61570	4403-90-1	Disodium 2, 2'-(9, 10-dioxoanthracene-1, 4-diylidimino)bis(5-methylsulphonate)	cosmetic colorants	None	None	1	Eye and skin irritant	2	-
CI 69800	81-77-6	6, 15-dihydroanthrazine-5, 9, 14, 18-tetrone	cosmetic colorants	None	None	0		1	-
CI 77491	1309-37-1	Diiron trioxide	cosmetic colorants	None	None	1	Carc3 (inadequate evidence)	-	-
CI 77492	1332-37-2	Iron oxide	cosmetic colorants	None	None	-		-	-
CI 77499	1317-61-9	Triiron tetraoxide	cosmetic colorants	None	None	-		-	-
CI 77891	13463-67-7	Titanium dioxide	cosmetic colorants	None	None	1	Carc3 (inadequate evidence), Mild pulmonary irritant	0	-
CI 77947	1314-13-2	Zinc oxide	cosmetic colorants	None	None	4	Several indications of allergy	0	-
CITRIC ACID	77-92-9	Citric acid	buffering agents / chelating agents	None	None	4	Some allergic properties, a moderate skin irritant	0	1
CITRUS LIMONUM	84929-31-7	Lemon, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from	botanicals	None	None	-		-	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		Citrus limonum, Rutaceae							
COCAMIDOPROPYL BETAINE	61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N, N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	surfactants	None	None	-		4	1
CYCLOHEXYLAMINE	108-91-8 (was found)			Xn R21/22, R10; C R34		4	Carc3 (inadequate evidence), Severe skin irritant, possible allergic response	1	1
CYCLOMETHICONE	69430-24-6	Octamethylcyclotetrasiloxane / decamethylcyclopentasiloxane	antistatic agents / emollients / humectants / solvents / viscosity controlling agents	None	None	-		2	4
CYCLOPENTASILOXANE	541-02-6 (was found)			None	None	-		-	4
DIAZOLIDINYL UREA	78491-02-8	1-[1, 3-bis(hydroxymethyl)-2, 5-dioximidazolidin-4-yl]-1, 3-bis(hydroxymethyl)urea	preservatives	None	None	-		4	4
DIISOBUTYL ADIPATE	141-04-8	Diisobutyl adipate	emollients	None	N, R51/53	8	Exp. teratogenic effects	2	4
DIISOPROPYL ADIPATE	6938-94-9	Diisopropyl adipate	emollients	None	None	-		-	-
DIMETHICONE	9006-65-9, 63148-62-9	Dimethicone	antifoaming agents / emollients	None	None	0		2	4
DIMETHICONE COPOLYOL	64365-23-7	Siloxanes and silicones, di-me, hydroxy-terminated, ethoxylated propoxylated	antistatic agents / emollients	None	None	0		0	1
DIMETHICONOL	31692-79-2	Poly[oxy(dimethylsilyl)ane], a-hydro-?-hydroxy-	antifoaming agents / emollients	None	None	-		2	4
DIMETHYL ETHER	115-10-6	Dimethyl ether	propellants / solvents	F+; R12		1	Skin and eye irritant	2	1
DIPROPYLENE GLYCOL	110-98-5	1, 1'-oxydipropan-2-ol	solvents	None	None	0		0	1
DISODIUM EDTA	139-33-3	Disodium dihydrogen ethylenediaminetetraacetate	chelating agents / viscosity controlling agents	None	None	-		2	4
DISTEARYLDIMONIUM CHLORIDE	107-64-2	Dimethyldioctadecylammonium chloride	antistatic agents	None	None	1	Potential eye and skin irritant	4	4
DMDM HYDANTOIN	6440-58-0	1, 3-bis(hydroxymethyl)-5, 5-dimethylimidazolidine-2, 4-dione	preservatives	None	Xn R43	4		0	-
EDTA	60-00-4	Edetic acid	chelating agents	None	None	1	May cause burns to skin and eyes	2	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
ETHOXYDIGLYCOL	111-90-0	2-(2-ethoxyethoxy)ethanol	humectants / solvents	None	None	1	Moderate eye irritant	0	1
ETHYLPARABEN	120-47-8	Ethyl 4-hydroxybenzoate	preservatives	None	None	4	May cause allergic dermatitis	4	1
GLYCERIN	56-81-5	Glycerol	denaturants / humectants / solvents	None	None	1	Skin and eye irritant	0	1
GLYOXYLIC ACID	298-12-4	Glyoxylic acid	buffering agents	None	None	4	Corrosive	-	-
HC RED NO. 3	354656, 2871-01-4 was found	2-(4-amino-2-nitroanilino)ethanol	hair dyes	None	Xn R22, R43	4	Carc3 (inadequate evidence)	-	-
HC YELLOW NO. 5	56932-44-6	2-(2-amino-4-nitroanilino)ethanol	hair dyes	None	Xn R43	4		-	-
HEXYLENE GLYCOL	107-41-5	2-methylpentane-2, 4-diol	solvents	Xi, R36/38		1		0	1
HYDROFLUOROCARBON 152A	75-37-6	1, 1-difluoroethane	propellants	None	None	1	Skin and eye irritant	-	1
HYDROGEN PEROXIDE	7722-84-1	Hydrogen peroxide	oxidising agents	O, R8; C, R34		8	Carc3 (inadequate evidence), Exp. mutagen, Skin and eye irritant	1	-
IMIDAZOLIDINYL UREA	39236-46-9	N, N"-methylenebis[N'-(3-(hydroxymethyl)-2, 5-dioxoimidazolidin-4-yl)urea]	preservatives	None	Xn, R43	4		4	4
IODOPROPYNYL BUTYLCARBAMATE	55406-53-6	3-iodo-2-propynyl butylcarbamate	preservatives	None	None	-		4	-
ISOBUTANE	75-28-5	Isobutane	propellants	F+; R12; Carc. Cat. 2; R45		8	Carc2, vapours may be irritating	0	1
ISOBUTYLPARABEN	857259	Isobutyl 4-hydroxybenzoate	preservatives	None	None	4	Can give allergy, Can be irritating	4	1
ISODODECANE	31807-55-3	Isododecane	emollients	None	N, R50/53	-		4	4
ISOHEXADECANE	4390-04-9, 60908-77-2	2, 2, 4, 4, 6, 8, 8-heptamethylnonane	emollients / solvents	None	N, R50/53	-		4	4
ISOPENTANE	78-78-4	2-methylbutane	propellants / solvents	F+, R12; Xn, R65, R66, R67; N, R51, R53		1	May be irritating for eye and skin	2	4
ISOPROPYL ALCOHOL	67-63-0	Propan-2-ol	antifoaming agents / solvents	F, R11; Xi R36, R67		8	Carc3 (inadequate evidence), exp. teratogen and reproductive effects	0	1
ISOPROPYLPARABEN	4191-73-5	Isopropyl 4-hydroxybenzoate	preservatives	None	Xn, R43	4		4	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
LAURETH-4	5274-68-0	3, 6, 9, 12-tetraoxatetracosan-1-ol	emulsifying agents / surfactants	None	N, R50/53	-		4	4
MAGNESIUM ALUMINUM SILICATE	1327-43-1	Silicic acid, aluminum magnesium salt	absorbents / opacifiers / viscosity controlling agents	None	None	-		-	-
MAGNESIUM CHLORIDE	7786-30-3	Magnesium chloride	additives	None	None	1	Dust can irritate eyes	0	1
MAGNESIUM NITRATE	10377-60-3	Magnesium nitrate	additive	None	None	1	Dust can irritate eyes	0	1
METHYLCHLOROISOTHIAZOLINONE	26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	preservatives	None	Xn, R43	4	Known allergen, Strong skin and eye irritant (but not in conc. used in cosmetics)	4	1
METHYLDIBROMO GLUTARONITRILE	35691-65-7	2-bromo-2-(bromomethyl)pentanedinitrile	preservatives	None	Xn, R22, R43	4		2	-
METHYLDIHYDROJASMONATE	2630-39-9	Methyl (1R-trans)-3-oxo-2-pentylcyclopentaneacetate	additives	None	N, R50	-		4	-
METHYLISOTHIAZOLINONE	2682-20-4	2-methyl-2H-isothiazol-3-one	preservatives	None	Xn, R43	4	Known allergen. Strong skin and eye irritant	4	1
METHYLPARABEN	99-76-3	Methyl 4-hydroxybenzoate	preservatives	None	None(Ref10)	4	Can cause allergic contact dermatitis, Moderate eye irritant	0	-
MICA	12001-26-2	Mica-group minerals (CI 77019)	opacifiers	None	None	1	Powder may irritate resp. Tract	-	-
NIACINAMIDE	98-92-0	Nicotinamide	additives	None	None	0		?	1
NONOXYNOL-10	27177-08-8, 9016-45-9	29-(nonylphenoxy)-3, 6, 9, 12, 15, 18, 21, 24, 27-nonaoxanonacosanol	emulsifying agents	None	None	-		-	-
NONOXYNOL-14	9016-45-9	Poly(oxy-1, 2-ethanediyl), a-(nonylphenyl)-?-hydroxy-	emulsifying agents / surfactants	None	None	1	Skin irritation after prolonged dermal contact	2	1
OCTOXYNOL-40	9002-93-1	Poly(oxy-1, 2-ethanediyl), a-[4-(1, 1, 3, 3-tetramethylbutyl)phenyl]-?-hydroxy-	emulsifying agents / surfactants	None	None	-		2	-
OCTYL METHOXYCINNAMATE	5466-77-3	2-ethylhexyl 4-methoxycinnamate	U.V. absorbers	None	N, R50/53	-		4	4
OCTYL PALMITATE	29806-73-3	2-ethylhexyl palmitate	emollients	None	None	-		-	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
OCTYL SALICYLATE	118-60-5	2-ethylhexyl salicylate	U.V. absorbers	None	Xn, R22; N, R50/53	1		4	4
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	70801-07-9		antistatic agents / film formers	None	None	-		-	-
OCTYLDODECANOL	5333-42-6	2-octyldodecan-1-ol	emollients / solvents	None	None	-		-	-
OCTYLDODECYL NEOPENTANOATE	125496-22-2 (was found)	Propanoic acid, 2, 2-dimethyl-, 2-octyldodecyl ester	emollients	None	None	-		-	-
PABA	150-13-0	4-aminobenzoic acid	U.V. absorbers	None	None	1	Carc3 (inadequate evidence),	1	1
PANTHENOL	81-13-0	Dexpanthenol	antistatic agents	None	None	4	Have shown contact allergy, Skin irritant, mild eye irritant	0	1
PANTHENYL ETHYL ETHER	667-83-4	(+)-N-(3-ethoxypropyl)-2, 4-dihydroxy-3, 3-dimethylbutyramide	antistatic agents	None	None	-		-	-
PARAFFINUM LIQUIDUM	8012-95-1	Paraffin oils. Liquid hydrocarbons from petroleum	antistatic agents / emollients / solvents	None	None	0	Carc3 (inadequate evidence)	1	-
PEG-25 PABA	116242-27-4		U.V. absorbers	None	None	-		-	-
PEG-40 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	None	None	1	Skin irritant, mild eye irritant	0	1
PENTANE	109-66-0	Pentane	propellants / solvents	F+, F12; Xn R65,66,67; N R51-53		8	May have reproductive effects (spontaneous abortion), Skin irritant by prolonged contact	2	4
PENTASODIUM PENTETATE	140-01-2	Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	chelating agents	None	Xn, R43	4		0	1
PETROLATUM	2231335 (not a CAS), found 8009-03-8 or, 8020-83-5	Petrolatum. A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon	antistatic agents / emollients	Carc. Cat 2, R45 (CAS 8009-03-8),		8		1	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		numbers predominantly greater than C25							
PHENOXYETHANOL	122-99-6	2-phenoxyethanol	preservatives	None	Xn; R22; Xi; R36	8	Exp. reproductive effects, Eye irritant	0	1
PHENYL TRIMETHICONE	2116-84-9	1, 1, 5, 5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]trisiloxane	antifoaming agents / antistatic agents / emollients	None	None	-		-	-
POLYQUATERNIUM-11	53633-54-8	2-propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate	antistatic agents / film formers	None	None	-		-	-
POLYQUATERNIUM-16	95144-24-4		antistatic agents / film formers	None	None	-		-	-
POLYQUATERNIUM-4	111774-28-8 was found		antistatic agents / film formers	None	None	-		-	-
POLYSORBATE 20	9005-64-5	Sorbitan, monododecanoate, poly(oxy-1, 2-ethanediyl) derivs	emulsifying agents / surfactants	None	None	0		0	1
POTASSIUM SORBATE	24634-61-5 590-00-1	Potassium (E, E)-hexa-2, 4-dienoate	preservatives	None	None	1	Skin irritant, Can cause eye irritation	-	-
PROPANE	74-98-6	Propane	propellants	F+; R12		1	Moderate skin irritant	0	1
PROPYLENE GLYCOL	57-55-6	Propane-1, 2-diol	humectants / solvents	None	None	1	Weak skin irritant	0	1
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	68583-51-7, 58748-27-9, 9062-04-8	Decanoic acid, mixed diesters with octanoic acid and propylene glycol	emollients	None	None	-		-	-
PROPYLPARABEN	94-13-3	Propyl 4-hydroxybenzoate	preservatives	None	None	4	An allergen, Moderate eye irritant	1	1
PVP	9003-39-8	2-pyrrolidinone, 1-ethenyl-, homopolymer	antistatic agents / binders / emulsion stabilisers / film formers	None	None	0	Carc3 (limited evidence)	-	-
PVP / VA COPOLYMER	25086-89-9	Acetic acid, ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	antistatic agents / binders / emulsion stabilisers / film formers	None	None	-		-	-
SODIUM BENZOATE	532-32-1	Sodium benzoate	preservatives	None	None	1	Irritant in large dose	0	1
SODIUM BISULFITE	7631-90-5	Sodium hydrogensulphite	preservatives	Xn, R22, R31		8	Carc3 (inadequate evidence), exp.	0	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
							mutations shown, Skin irritant		
SODIUM CHLORIDE	7647-14-5	Sodium chloride	viscosity controlling agents	None	None	1	Mild skin and eye irritant	0	-
SODIUM HYDROXIDE	1310-73-2	Sodium hydroxide	buffering agents / denaturants	C, R35		4	Severe burns, irritant	1	1
SODIUM HYDROXYMETHYLGLYCINATE	70161-44-3	Sodium N-(hydroxymethyl)glycinate	preservatives	None	None	-		-	-
SODIUM LAURYL SULFATE	151-21-3	Sodium dodecyl sulphate	denaturants / emulsifying agents / surfactants	None	None	8	Exp. teratogen effects, A mild allergen, eye and severe skin irritant	2	1
SODIUM METABISULFITE	7681-57-4	Disodium disulphite	preservatives	None	None	4	Carc3 (inadequate evidence), Allergic dermatitis may be noted, Strong skin irritant	-	-
SODIUM METHYLPARABEN	5026-62-0	Sodium 4-(methoxycarbonyl)phenolate	preservatives	None	None	-		-	-
SORBIC ACID	110-44-1	Hexa-2, 4-dienoic acid	preservatives	None	Xn, R43	4	Allergic responses, severe skin irritant	-	1
SORBITOL	50-70-4	D-glucitol	humectants	None	None	0		-	1
STEARYL ALCOHOL	112-92-5	Octadecan-1-ol	emollients / emulsion stabilisers / opacifiers / viscosity controlling agents	None	None	4	Skin irritant, patch testing shows sensitivity	-	4
TALLOWTRIMONIUM CHLORIDE	8030-78-2	Quaternary ammonium compounds, trimethyltallow alkyl, chlorides	antistatic agents / preservatives / surfactants	None	None	-		4	-
t-BUTYL ALCOHOL	75-65-0	2-methylpropan-2-ol	denaturants / solvents	F, R11; Xn, R20		1	Skin and eye irritant	0	1
TETRAHYDROXYPROPYL ETHYLENEDIAMINE	102-60-3	1, 1', 1'', 1'''-ethylenedinitrilotetrapropan-2-ol	chelating agents	None	Xn, R43	4		-	-
TETRASODIUM EDTA	64-02-8	Tetrasodium ethylenediaminetetraacetate	chelating agents	None	None	1	Eye irritant (alkaline)	0	1
THIAMINE HCl	67-03-8	Thiamine hydrochloride	biological additives	None	None	-		-	-
TITANIUM DIOXIDE	13463-67-7	Titanium dioxide (CI 77891)	opacifiers	None	None	1	Carc3 (inadequate evidence), A mild pulmonary irritant	0	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
TOCOPHEROL	59-02-9, 10191-41-0	a-tocopherol; 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-ol	antioxidants	None	None	0		-	-
TOCOPHERYL ACETATE	58-95-7, 7695-91-2	a-tocopheryl acetate, 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	antioxidants	None	None	-		-	-
TRIETHANOLAMINE	102-71-6	2, 2', 2''-nitrilotriethanol	buffering agents	None	Xn, R43	4	Carc3 (inadequate evidence), Contact allergy is reported, Skin and eye irritant	0	1
TRIETHYL CITRATE	77-93-0	Triethyl citrate	antioxidants / deodorant agents / solvents	None	None	4	Allergenic properties reported, Skin and eye irritant	-	-
TRIETHYLENE GLYCOL	112-27-6	2, 2'-(ethylenedioxy)diethanol	solvents	None	None	1	Skin and eye irritant	0	1
VINYLPYRROLIDONE	25086-89-9			None	None	-		-	-

List of the prioritized substances for a screening for environmental and health effects in prioritized order (after environmental and health score)

This enclosure is a list of the approximately 160 chemical substances for which a screening for environmental and health effects has been carried out. At the same time the enclosure states the result of the screening for environmental and health effects for the selected chemical substances. This enclosure is identical with enclosure F – here the results are only stated after descending health score.

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
BHA	25013-16-5	Tert-butyl-4-methoxyphenol	antioxidants	None	None	8	Produces allergic contact dermatitis. Carc2B	2	4
DIISOBUTYL ADIPATE	141-04-8	Diisobutyl adipate	emollients	None	N, R51/53	8	Exp. teratogenic effects	2	4
PENTANE	109-66-0	Pentane	propellants / solvents	F+, F12; Xn R65,66,67; N R51-53		8	May have reproductive effects (spontaneous abortion), Skin irritant by prolonged contact	2	4
SODIUM LAURYL SULFATE	151-21-3	Sodium dodecyl sulphate	denaturants / emulsifying agents / surfactants	None	None	8	Exp. teratogen effects, A mild allergen, eye and severe skin irritant	2	1
BASIC VIOLET 14	632-99-5	(4-(4-aminophenyl)(4-iminocyclohexa-2, 5-dienylidene)methyl)-2-methylaniline hydrochloride (CI 42510)	hair dyes	None	None	8	Exp. mutagen. May cause allergic reactions.	2	-
2-NITRO-p-PHENYLENEDIAMINE	5307-14-2	2-nitro-p-phenylenediamine (CI 76070)	hair dyes	None	Xn, R40 (C3), R43, R52/53	8	Carc3, Exp. Reproductive and mutagen effects	1	4
CI 16185	915-67-3, 12227-62-2	Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthal	cosmetic colorants	None	None	8	Carc3, some exp. carcinogen and	1	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		ene-2, 7-disulphonate; Aluminum, 3-hydroxy-4-(4-sulfo-1-naphthalenyl)azo-2, 7-naphthalenedisulfonic acid complex. This substance is identified in the Colour Index by Colour Index					reproductive effects		
BASIC BLUE 9	61-73-4	Methylthionium chloride (CI 52015)	hair dyes	None	None	8	Mutagenic in cultured mammalian cells	1	-
PETROLATUM	2231335 (not a CAS), found 8009-03-8 or, 8020-83-5	Petrolatum. A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than C25	antistatic agents / emollients	Carc. Cat 2, R45 (CAS 8009-03-8),		8		1	-
HYDROGEN PEROXIDE	7722-84-1	Hydrogen peroxide	oxidising agents	O, R8; C, R34		8	Carc3 (inadequate evidence), Exp. mutagen, Skin and eye irritant	1	-
ISOBUTANE	75-28-5	Isobutane	propellants	F+; R12; Carc. Cat. 2; R45		8	Carc2, vapours may be irritating	0	1
ISOPROPYL ALCOHOL	67-63-0	Propan-2-ol	antifoaming agents / solvents	F, R11; Xi R36, R67		8	Carc3 (inadequate evidence), exp. teratogen and reproductive effects	0	1
PHENOXYETHANOL	122-99-6	2-phenoxyethanol	preservatives	None	Xn; R22; Xi; R36	8	Exp. reproductive effects, Eye irritant	0	1
SODIUM BISULFITE	7631-90-5	Sodium hydrogensulphite	preservatives	Xn, R22, R31		8	Carc3 (inadequate evidence), exp. mutations shown, Skin irritant	0	-
CHLOROACETAMIDE	79-07-2	2-chloroacetamide	preservatives	Repr. Carc 3, R62; T, R25, R43		8		?	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
2-BROMO-2-NITROPROPANE-1,3-DIOL	52-51-7	Bronopol	preservatives	Xn, R21/22; Xi, R37/38, R41; N R50, R53		4	LD50 = R25, Eye and skin irritant	4	4
BENZALKONIUM CHLORIDE	63449-41-2, 8001-54-5	Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	preservatives	None	None	4	Skin and severe eye irritant. Can cause allergic reactions.	4	4
BENZOPHENONE-3	131-57-7	Oxybenzone	U.V. absorbers	None	Xn, R43	4	Allergic contact dermatitis.	4	4
IMIDAZOLIDINYL UREA	39236-46-9	N, N"-methylenebis[N'-(3-(hydroxymethyl)-2, 5-dioximidazolidin-4-yl)urea]	preservatives	None	Xn, R43	4		4	4
ETHYLPARABEN	120-47-8	Ethyl 4-hydroxybenzoate	preservatives	None	None	4	May cause allergic dermatitis	4	1
ISOBUTYLPARABEN	857259	Isobutyl 4-hydroxybenzoate	preservatives	None	None	4	Can give allergy, Can be irritating	4	1
ISOPROPYLPARABEN	4191-73-5	Isopropyl 4-hydroxybenzoate	preservatives	None	Xn, R43	4		4	1
METHYLCHLOROISOTHIAZOLINONE	26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	preservatives	None	Xn, R43	4	Known allergen, Strong skin and eye irritant (but not in conc. used in cosmetics)	4	1
METHYLISOTHIAZOLINONE	2682-20-4	2-methyl-2H-isothiazol-3-one	preservatives	None	Xn, R43	4	Known allergen. Strong skin and eye irritant	4	1
CAPRYLYL PYRROLIDONE	2687-94-7	Pyrolidone, N-octyl-	surfactants	C, R34; N, R51-53		4		2	4
CI 60725	81-48-1	1-hydroxy-4-(p-toluidino)anthraquinone	cosmetic colorants	None	Xn R43; N R51/53	4	Allergic reactions seen, May cause skin irritations	2	4
2-AMINOBTANOL	96-20-8	2-aminobutan-1-ol	buffering agents	None	Xn, R43	4		2	-
METHYLDIBROMO GLUTARONITRILE	35691-65-7	2-bromo-2-(bromomethyl)pentanedinitrile	preservatives	None	Xn, R22, R43	4		2	-
CYCLOHEXYLAMINE	108-91-8 (was found)			Xn R21/22, R10; C R34		4	Carc3 (inadequate evidence), Severe skin irritant, possible allergic response	1	1
ASCORBIC ACID	50-81-7	Ascorbic acid	antioxidants / buffering agents	None	None	4	Cases of allergy, Eye and skin	1	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
							irritant		
PROPYLPARABEN	94-13-3	Propyl 4-hydroxybenzoate	preservatives	None	None	4	An allergen, Moderate eye irritant	1	1
SODIUM HYDROXIDE	1310-73-2	Sodium hydroxide	buffering agents / denaturants	C, R35		4	Severe burns, irritant	1	1
TRIETHANOLAMINE	102-71-6	2, 2', 2"-nitrioltriethanol	buffering agents	None	Xn, R43	4	Carc3 (inadequate evidence), Contact allergy is reported, Skin and eye irritant	0	1
BENZOIC ACID	65-85-0	Benzoic acid	preservatives	None	None	4	Skin irritant. May cause allergic dermatitis.	0	1
BENZYL ALCOHOL	100-51-6	Benzyl alcohol	preservatives / solvents	Xn; R20/22		4	Mild skin irritant. Allergic effects has been seen.	0	1
CITRIC ACID	77-92-9	Citric acid	buffering agents / chelating agents	None	None	4	Some allergic properties, a moderate skin irritant	0	1
PANTHENOL	81-13-0	Dexpanthenol	antistatic agents	None	None	4	Have shown contact allergy, Skin irritant, mild eye irritant	0	1
PENTASODIUM PENTETATE	140-01-2	Pentasodium (carboxylatomethyl)iminobis(ethy lenenitrilo)tetraacetate	chelating agents	None	Xn, R43	4		0	1
DMDM HYDANTOIN	6440-58-0	1, 3-bis(hydroxymethyl)-5, 5-dimethylimidazolidine-2, 4-dione	preservatives	None	Xn R43	4		0	-
CI 77947	1314-13-2	Zinc oxide	cosmetic colorants	None	None	4	Several indications of allergy	0	-
METHYLPARABEN	99-76-3	Methyl 4-hydroxybenzoate	preservatives	None	None(Ref10)	4	Can cause allergic contact dermatitis, Moderate eye irritant	0	-
STEARYL ALCOHOL	112-92-5	Octadecan-1-ol	emollients / emulsion stabilisers / opacifiers / viscosity controlling agents	None	None	4	Skin irritant, pacth testing shows sensitivity	-	4

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
SORBIC ACID	110-44-1	Hexa-2, 4-dienoic acid	preservatives	None	Xn, R43	4	Allergic responses, severe skin irritant	-	1
HC RED NO. 3	354656, 2871-01-4 was found	2-(4-amino-2-nitroanilino)ethanol	hair dyes	None	Xn R22, R43	4	Carc3 (inadequate evidence)	-	-
SODIUM METABISULFITE	7681-57-4	Disodium disulphite	preservatives	None	None	4	Carc3 (inadequate evidence), Allergic dermatitis may be noted, Strong skin irritant	-	-
CHLORPHENESIN	104-29-0	Chlorphenesin	preservatives	None	Xn R22, R43	4		-	-
CI 18050	3734-67-6	Disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate	cosmetic colorants	None	Xn, R43	4		-	-
GLYOXYLIC ACID	298-12-4	Glyoxylic acid	buffering agents	None	None	4	Corrosive	-	-
HC YELLOW NO. 5	56932-44-6	2-(2-amino-4-nitroanilino)ethanol	hair dyes	None	Xn R43	4		-	-
TETRAHYDROXYPROPYL ETHYLENEDIAMINE	102-60-3	1, 1', 1'', 1'''-ethylenedinitrilotetrapropan-2-ol	chelating agents	None	Xn, R43	4		-	-
TRIETHYL CITRATE	77-93-0	Triethyl citrate	antioxidants / deodorant agents / solvents	None	None	4	Allergenic properties reported, Skin and eye irritant	-	-
BHT	128-37-0	2, 6-di-tert-butyl-P-cresol	antioxidants	None	Xn R22, N 50/53	1	Carc3 (no data), Eye irritant.	4	4
CETRIMONIUM CHLORIDE	112-02-7	Cetrimonium chloride	preservatives	None	None	1	Eye irritant (vapours)	4	4
DISTEARYLDIMONIUM CHLORIDE	107-64-2	Dimethyldioctadecylammonium chloride	antistatic agents	None	None	1	Potential eye and skin irritant	4	4
OCTYL SALICYLATE	118-60-5	2-ethylhexyl salicylate	U.V. absorbers	None	Xn, R22; N, R50/53	1		4	4
BUTYLPARABEN	94-26-8	Butyl 4-hydroxybenzoate	preservatives	None	N, R51/53 (Ref 10)	1	Can be irritating or give allergy but rarely seen	2	4
ISOPENTANE	78-78-4	2-methylbutane	propellants / solvents	F+, R12; Xn, R65, R66, R67; N, R51, R53		1	May be irritating for eye and skin	2	4
DIMETHYL ETHER	115-10-6	Dimethyl ether	propellants / solvents	F+; R12		1	Skin and eye irritant	2	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
EDTA	60-00-4	Edetic acid	chelating agents	None	None	1	May cause burns to skin and eyes	2	1
NONOXYNOL-14	9016-45-9	Poly(oxy-1, 2-ethanediyl), a-(nonylphenyl)-?-hydroxy-	emulsifying agents / surfactants	None	None	1	Skin irritation after prolonged dermal contact	2	1
BASIC RED 2	477-73-6	3, 7-diamino-2, 8-dimethyl-5-phenylphenazinium chloride (CI 50240)	hair dyes	None	None	1	Injourous to human eye	2	-
CI 61570	4403-90-1	Disodium 2, 2'-(9, 10-dioxoanthracene-1, 4-diyl-diimino)bis(5-methylsulphonate)	cosmetic colorants	None	None	1	Eye and skin irritant	2	-
CETYL ALCOHOL	36653-82-4	Hexadecan-1-ol	emollients / emulsifying agents / opacifiers / viscosity controlling agents	None	N, R51/53	1	Skin irritant	1	4
PABA	150-13-0	4-aminobenzoic acid	U.V. absorbers	None	None	1	Carc3 (inadequate evidence),	1	1
AMINOMETHYL PROPANOL	124-68-5	2-amino-2-methylpropanol	buffering agents	Xi, R36/38, R52/53		1	Irritant	1	1
CALCIUM HYDROXIDE	1305-62-0	Calcium dihydroxide	buffering agents	None	None	1	Skin irritant	1	1
AMMONIUM BENZOATE	1863-63-4	Ammonium benzoate	preservatives	None	None	1	Eye and skin irritant	1	-
BUTYLENE GLYCOL	107-88-0	Butane-1, 3-diol	humectants / solvents	None	None	1	Eye irritant	0	1
ACETONE	67-64-1	Acetone	denaturants / solvents	F, R11; Xi, R36, R66, R67		1	Skin and severe eye irritant	0	1
ALCOHOL DENAT.	64-17-5	Ethanol	solvents	F; R11		1	Carc1 (alcohol drinking), A skin irritant	0	1
BUTANE	106-97-8	Butane	propellants	F+; R12		1	Mild skin irritant	0	1
CALCIUM CARBONATE	471-34-1	Calcium carbonate	abrasives / buffering agents / opacifiers / oral care agents	None	None	1	Eye irritant	0	1
ETHOXYDIGLYCOL	111-90-0	2-(2-ethoxyethoxy)ethanol	humectants / solvents	None	None	1	Moderate eye irritant	0	1
GLYCERIN	56-81-5	Glycerol	denaturants / humectants / solvents	None	None	1	Skin and eye irritant	0	1
HEXYLENE GLYCOL	107-41-5	2-methylpentane-2, 4-diol	solvents	Xi, R36/38		1		0	1
MAGNESIUM CHLORIDE	7786-30-3	Magnesium chloride	additives	None	None	1	Dust can irritate eyes	0	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
MAGNESIUM NITRATE	10377-60-3	Magnesium nitrate	additive	None	None	1	Dust can irritate eyes	0	1
PEG-40 HYDROGENATED CASTOR OIL	61788-85-0	Castor oil, hydrogenated, ethoxylated	emulsifying agents / surfactants	None	None	1	Skin irritant, mild eye irritant	0	1
PROPANE	74-98-6	Propane	propellants	F+; R12		1	Moderate skin irritant	0	1
PROPYLENE GLYCOL	57-55-6	Propane-1, 2-diol	humectants / solvents	None	None	1	Weak skin irritant	0	1
SODIUM BENZOATE	532-32-1	Sodium benzoate	preservatives	None	None	1	Irritant in large dose	0	1
t-BUTYL ALCOHOL	75-65-0	2-methylpropan-2-ol	denaturants / solvents	F, R11; Xn, R20		1	Skin and eye irritant	0	1
TETRASODIUM EDTA	64-02-8	Tetrasodium ethylenediaminetetraacetate	chelating agents	None	None	1	Eye irritant (alkaline)	0	1
TRIETHYLENE GLYCOL	112-27-6	2, 2'-(ethylenedioxy)diethanol	solvents	None	None	1	Skin and eye irritant	0	1
CI 77891	13463-67-7	Titanium dioxide	cosmetic colorants	None	None	1	Carc3 (inadequate evidence), Mild pulmonary irritant	0	-
TITANIUM DIOXIDE	13463-67-7	Titanium dioxide (CI 77891)	opacifiers	None	None	1	Carc3 (inadequate evidence), A mild pulmonary irritant	0	-
SODIUM CHLORIDE	7647-14-5	Sodium chloride	viscosity controlling agents	None	None	1	Mild skin and eye irritant	0	-
HYDROFLUOROCARBON 152A	75-37-6	1, 1-difluoroethane	propellants	None	None	1	Skin and eye irritant	-	1
CI 77491	1309-37-1	Diiron trioxide	cosmetic colorants	None	None	1	Carc3 (inadequate evidence)	-	-
MICA	12001-26-2	Mica-group minerals (CI 77019)	opacifiers	None	None	1	Powder may irritate resp. Tract	-	-
POTASSIUM SORBATE	24634-61-5 590-00-1	Potassium (E, E)-hexa-2, 4-dienoate	preservatives	None	None	1	Skin irritant, Can cause eye irritation	-	-
DIMETHICONE	9006-65-9, 63148-62-9	Dimethicone	antifoaming agents / emollients	None	None	0		2	4
CI 15985	2783-94-0, 15790-07-5	Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate; Aluminum, 6-hydroxy-5-(4-sulphophenyl)azo-2-naphthalenesulfonic acid complex. This substance is identified in the Colour Index by	cosmetic colorants	None	None	0	Carc3 (inadequate data)	2	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		Colour Index Constitution Number, C.I. 159							
PARAFFINUM LIQUIDUM	8012-95-1	Paraffin oils. Liquid hydrocarbons from petroleum	antistatic agents / emollients / solvents	None	None	0	Carc3 (inadequate evidence)	1	-
CI 69800	81-77-6	6, 15-dihydroanthrazine-5, 9, 14, 18-tetrone	cosmetic colorants	None	None	0		1	-
DIMETHICONE COPOLYOL	64365-23-7	Siloxanes and silicones, di-me, hydroxy-terminated, ethoxylated propoxylated	antistatic agents / emollients	None	None	0		0	1
DIPROPYLENE GLYCOL	110-98-5	1, 1'-oxydipropan-2-ol	solvents	None	None	0		0	1
POLYSORBATE 20	9005-64-5	Sorbitan, monododecanoate, poly(oxy-1, 2-ethanediy) derivs	emulsifying agents / surfactants	None	None	0		0	1
SORBITOL	50-70-4	D-glucitol	humectants	None	None	0		-	1
NIACINAMIDE	98-92-0	Nicotinamide	additives	None	None	0		?	1
PVP	9003-39-8	2-pyrrolidinone, 1-ethenyl-, homopolymer	antistatic agents / binders / emulsion stabilisers / film formers	None	None	0	Carc3 (limited evidence)	-	-
TOCOPHEROL	59-02-9, 10191-41-0	a-tocopherol; 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-ol	antioxidants	None	None	0		-	-
BEHENTRIMONIUM CHLORIDE	17301-53-0	Docosyltrimethylammonium chloride	preservatives	None	None	-		4	4
BENZOPHENONE-4	4065-45-6	Sulisobenzone	U.V. absorbers	Nothing found	Nothing found	-		4	4
BUTYL METHOXYDIBENZOYLMETHANE	70356-09-1	1-[4-(1, 1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1, 3-dione	U.V. absorbers	None	None	-		4	4
DIAZOLIDINYL UREA	78491-02-8	1-[1, 3-bis(hydroxymethyl)-2, 5-dioximidazolidin-4-yl]-1, 3-bis(hydroxymethyl)urea	preservatives	None	None	-		4	4
ISODODECANE	31807-55-3	Isododecane	emollients	None	N, R50/53	-		4	4
ISOHEXADECANE	4390-04-9, 60908-77-2	2, 2, 4, 4, 6, 8, 8-heptamethylnonane	emollients / solvents	None	N, R50/53	-		4	4
LAURETH-4	5274-68-0	3, 6, 9, 12-tetraoxatetracosan-1-ol	emulsifying agents / surfactants	None	N, R50/53	-		4	4
OCTYL METHOXYCINNAMATE	5466-77-3	2-ethylhexyl 4-methoxycinnamate	U.V. absorbers	None	N, R50/53	-		4	4
CALCIUM PANTOTHENATE	137-08-6, 6381-63-1	Calcium pantothenate, D-form; Calcium (+.-)-N-(2, 4-dihydroxy-3, 3-dimethyl-1-oxobutyl)-á-	antistatic agents	None	None	-		4	1

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		alaninate							
COCAMIDOPROPYL BETAINE	61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N, N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	surfactants	None	None	-		4	1
CI 47000	8003-22-3	1, 3-Isobenzofurandione, reaction products with methylquinoline and quinoline. This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 47000	cosmetic colorants	None	None	-		4	-
METHYLDIHYDROJASMONATE	2630-39-9	Methyl (1R-trans)-3-oxo-2-pentylcyclopentaneacetate	additives	None	N, R50	-		4	-
TALLOWTRIMONIUM CHLORIDE	8030-78-2	Quaternary ammonium compounds, trimethyltallow alkyl, chlorides	antistatic agents / preservatives / surfactants	None	None	-		4	-
IODOPROPYNYL BUTYLCARBAMATE	55406-53-6	3-iodo-2-propynyl butylcarbamate	preservatives	None	None	-		4	-
CARBOMER	9007-20-9, 9003-01-4	Carbomer	emulsion stabilisers / viscosity controlling agents	None	None	-	Carc3 (no data)	2	4
ACRYLATES COPOLYMER	25133-97-5	2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate	antistatic agents / binders / film formers	None	None	-		2	4
AMODIMETHICONE	Was not found		antistatic agents	None	None	-		2	4
CYCLOMETHICONE	69430-24-6	Octamethylcyclotetrasiloxane / decamethylcyclopentasiloxane	antistatic agents / emollients / humectants / solvents / viscosity controlling agents	None	None	-		2	4
DIMETHICONOL	31692-79-2	Poly[oxy(dimethylsilyl)ane], a-hydro-7-hydroxy-	antifoaming agents / emollients	None	None	-		2	4
DISODIUM EDTA	139-33-3	Disodium dihydrogen ethylenediaminetetraacetate	chelating agents / viscosity controlling agents	None	None	-		2	4
CI 19140	1934-21-0, 12225-21-7, 97375-39-8	Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate; Aluminum, 4, 5-dihydro-5-oxo-1-(4-sulphophenyl)-4-(4-sulphophenyl)azo-1H-	cosmetic colorants	None	None	-		2	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		pyrazole-3-carboxylic acid complex. This substance is identified in the Colour							
OCTOXYNOL-40	9002-93-1	Poly(oxy-1, 2-ethanediyl), a-[4-(1, 1, 3, 3-tetramethylbutyl)phenyl]-2-hydroxy-	emulsifying agents / surfactants	None	None	-		2	-
CI 15510	633-96-5	Sodium 4-[(2-hydroxy-1-naphthyl)azo]benzenesulphonate; Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, Al-lake	cosmetic colorants	None	None	-		0	1
CYCLOPENTASILOXANE	541-02-6 (was found)			None	None	-		-	4
CETRIMONIUM BROMIDE	57-09-0	Cetrimonium bromide	preservatives	None	None	-		-	1
CI 42090	2650-18-2, 3844-45-9, 68921-42-6	Diammonio(ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino]phenyl](2-sulphonatophenyl)methylene]cyclohexa-2, 5-dien-1-ylidene(3-sulphonatobenzyl)ammonium; Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino]-2'-sulphonatobenzylidene]cy	cosmetic colorants	None	None	-	Carc3 (no data)	-	-
CI 42520	3248-91-7	4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2, 5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride	cosmetic colorants	None	None	-	Carc3 (inadequate evidence), Magenta containing Basic Red 9 is possibly carcinogenic	-	-
BASIC BLUE 99	68123-13-7	3-[(4-amino-6-bromo-5, 8-dihydro-1-hydroxy-8-imino-5-oxo-2-naphthyl)amino]-N, N, N-trimethylanilinium chloride (CI 56059)	hair dyes	None	None	-		-	-
BASIC BROWN 16	26381-41-9	[8-[(p-aminophenyl)azo]-7-hydroxy-2-naphthyl]trimethylammonium chloride (CI 12250)	hair dyes	None	None	-		-	-
BASIC BROWN 17	71134-97-9	[8-[(4-amino-2-nitrophenyl)azo]-7-hydroxy-2-	hair dyes	None	None	-		-	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		naphthyl]trimethylammonium chloride (CI 12251)							
BASIC RED 76	68391-30-0	[7-hydroxy-8-[(2-methoxyphenyl)azo]-2-naphthyl]trimethylammonium chloride (CI 12245)	hair dyes	None	None	-		-	-
BASIC YELLOW 57	68391-31-1	3-[(4, 5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-N, N, N-trimethylanilinium chloride (CI 12719)	hair dyes	None	None	-		-	-
CI 17200	3567-66-6	Disodium 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2, 7-disulphonate; 2, 7-naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(3-phenylazo)-, Al-lake	cosmetic colorants	None	None	-		-	-
CI 42051	3536-49-0	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2', 4'-disulphonatobenzhydrylidene]cyclohexa-2, 5-dien-1-ylidene]diethylammonium], calcium salt	cosmetic colorants	None	None	-		-	-
CI 42600	2390-59-2 (Was found)			None	None	-		-	-
CI 42735	6505-30-2	Hydrogen [4-[4-(diethylamino)phenyl][4-[ethyl[(3-sulphonatobenzyl)amino]-o-tolyl]methylene]-3-methylcyclohexa-2, 5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt	cosmetic colorants	None	None	-		-	-
CI 47005	94891-32-4, 8004-92-0	Aluminum, 2-(1, 3-dihydro-1, 3-dioxo-2H-inden-2-ylidene)-1, 2-dihydro-6, 7-quinolinedisulfonate complexes	cosmetic colorants	None	None	-		-	-
CI 60730	4430-18-6	Sodium 4-[(9, 10-dihydro-4-hydroxy-9, 10-dioxo-1-anthryl)amino]toluene-3-sulphonate	cosmetic colorants	None	None	-		-	-
CI 61565	128-80-3	1, 4-bis(p-	cosmetic colorants	None	None	-		-	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
		tolylamino)anthraquinone							
CI 77492	1332-37-2	Iron oxide	cosmetic colorants	None	None	-		-	-
CI 77499	1317-61-9	Triiron tetraoxide	cosmetic colorants	None	None	-		-	-
CITRUS LIMONUM	84929-31-7	Lemon, ext. Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Citrus limonum, Rutaceae	botanicals	None	None	-		-	-
DIISOPROPYL ADIPATE	6938-94-9	Diisopropyl adipate	emollients	None	None	-		-	-
MAGNESIUM ALUMINUM SILICATE	1327-43-1	Silicic acid, aluminum magnesium salt	absorbents / opacifiers / viscosity controlling agents	None	None	-		-	-
NONOXYNOL-10	27177-08-8, 9016-45-9	29-(nonylphenoxy)-3, 6, 9, 12, 15, 18, 21, 24, 27-nonaoxanonacosanol	emulsifying agents	None	None	-		-	-
OCTYL PALMITATE	29806-73-3	2-ethylhexyl palmitate	emollients	None	None	-		-	-
OCTYLACRYLAMIDE / ACRYLATES / BUTYLAMINOETHYL METHACRYLATE COPOLYMER	70801-07-9		antistatic agents / film formers	None	None	-		-	-
OCTYLDODECANOL	5333-42-6	2-octyldodecan-1-ol	emollients / solvents	None	None	-		-	-
OCTYLDODECYL NEOPENTANOATE	125496-22-2 (was found)	Propanoic acid, 2, 2-dimethyl-, 2-octyldodecyl ester	emollients	None	None	-		-	-
PANTHENYL ETHYL ETHER	667-83-4	(+)-N-(3-ethoxypropyl)-2, 4-dihydroxy-3, 3-dimethylbutyramide	antistatic agents	None	None	-		-	-
PEG-25 PABA	116242-27-4		U.V. absorbers	None	None	-		-	-
PHENYL TRIMETHICONE	2116-84-9	1, 1, 5, 5-hexamethyl-3-phenyl-3-[(trimethylsilyl)oxy]trisiloxane	antifoaming agents / antistatic agents / emollients	None	None	-		-	-
POLYQUATERNIUM-11	53633-54-8	2-propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate	antistatic agents / film formers	None	None	-		-	-
POLYQUATERNIUM-16	95144-24-4		antistatic agents / film formers	None	None	-		-	-

INCI Name	CAS No.	Chemical Name as described in the INCI list	Function	Classification	Self classification of the Danish EPA	Score health	Summery health	Score aquatic effect	Score aquatic exposure
POLYQUATERNIUM-4	111774-28-8 was found		antistatic agents / film formers	None	None	-		-	-
PROPYLENE GLYCOL DICAPRYLATE / DICAPRATE	68583-51-7, 58748-27-9, 9062-04-8	Decanoic acid, mixed diesters with octanoic acid and propylene glycol	emollients	None	None	-		-	-
PVP / VA COPOLYMER	25086-89-9	Acetic acid, ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	antistatic agents / binders / emulsion stabilisers / film formers	None	None	-		-	-
SODIUM HYDROXYMETHYLGLYCINATE	70161-44-3	Sodium N-(hydroxymethyl)glycinate	preservatives	None	None	-		-	-
SODIUM METHYLPARABEN	5026-62-0	Sodium 4-(methoxycarbonyl)phenolate	preservatives	None	None	-		-	-
THIAMINE HCl	67-03-8	Thiamine hydrochloride	biological additives	None	None	-		-	-
TOCOPHERYL ACETATE	58-95-7, 7695-91-2	a-tocopheryl acetate, 3, 4-dihydro-2, 5, 7, 8-tetramethyl-2-(4, 8, 12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	antioxidants	None	None	-		-	-
VINYLPYRROLIDONE	25086-89-9			None	None	-		-	-

Overview of the contents of the database

This enclosure contains a description of the contents of the created database of hairstyling products.

1.1 The database

A database in Microsoft Access 2000 has been created for the Danish Environmental Protection Agency covering the in total 328 mapped hairstyling products (see figure 1).

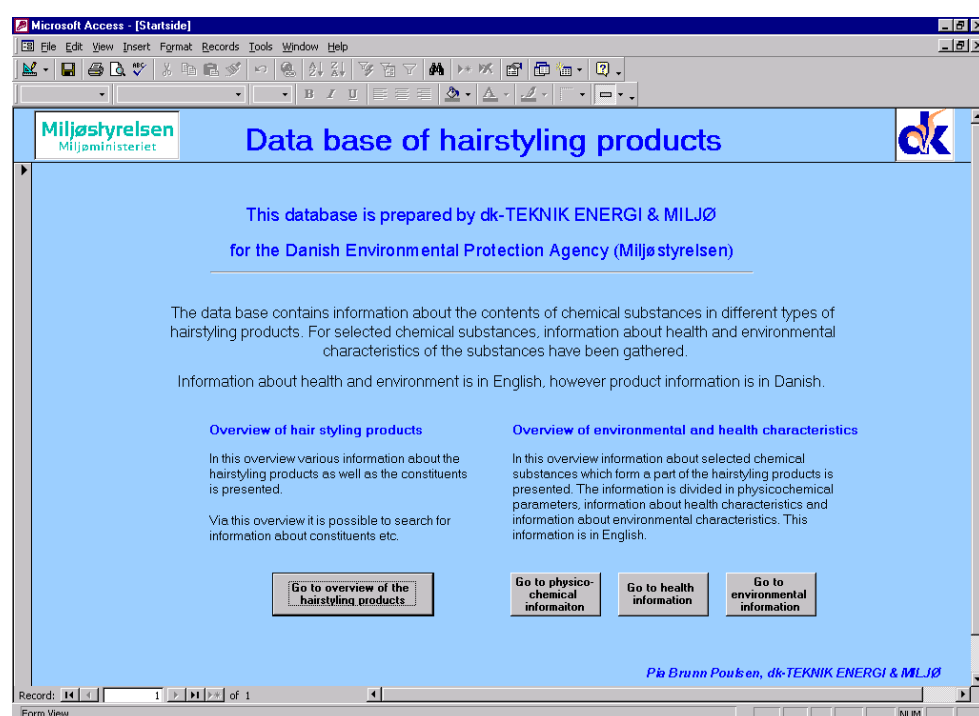


Figure 1: Front page of the database

The database is based on two key surveys:

- A *product overview* where the following is recorded for each hairstyling product:
 - Contents of chemical substances
 - Different information about the product (type, purchase place etc.)
- An *overview of substances* of selected chemical substances and their environmental and health characteristics. This overview is divided into three and for each chemical substance the following is found:
 - An overview of physicochemical properties for selected chemical substances
 - An overview of characteristics with regard to health for selected chemical substances
 - An overview of characteristics with regard to environment for selected chemical substances

1.2 Product overview

For each hairstyling product information has been keyed into the database about which constituents that form a part of the products, but also in which ranking the constituents are listed on the product. Thus, the ranking is an indication of the relative concentration in the products. A low number (high ranking) expresses that the substance enters as a main constituent in the product whereas a high number (low ranking) indicates that the substance enters as an additive, for instance preservatives.

In addition to this the database has a number of other information about the products.

Microsoft Access - [Indtastningsark]

Information about hairstyling products

Product name: Allison Styling Gel Strong

Type of product: Gele

Number of constituents: 18

Retail/saloon/mail order products: Detailprodukt

Product ID: 163

Producer/Importer: Allison of Denmark

Information via: Produktet er købt

Provided from: Møgesin, Lyngby

Date of purchase: 24-10-01

PR-No.:

Bar code number: 5 701566 134745

Batch number: 034104

Comment:

Perfume specifications:

INCIName	Ranking
AQUA	1
PVP	2
PEG-40 HYDROGENATED CASTOR OIL	3
CARBOMER	4
TRIETHANOLAMINE	5
ALOE BARBADENSIS	6
RETINYL PALMITATE	7
TOCOPHERYL ACETATE	8
LINOLENIC ACID	9
AESCULUS HIPPOCASTANUM	10
PABA	11
PANTHENOL	12
PHENOXYETHANOL	13

Record: 1 of 18

Find products with a specific constituent

Find products with a specific constituent and of specific type

List of all constituents

Find frequency of a specific substance

Find products of a specific type

Go to start page

Environment and health information

Record: 1 of 328

Form View

Figure 2: Product information

The following information is recorded in the database for all bought hairstyling products (see figure 2):

- Product name (the name of the hairstyling product).
- Product type (that means if the products are a wax, a hair spray, a gel, a gel spray, a mousse, a cream, a hair straightener or others).
- The chemical substances contained in the products are stated with their INCI name including the ranking of the constituents in the products (that means the order of the constituents in the ingredient list).
- The number of chemical substances contained in the product totally.
- Statement of how the product is provided (if the product is bought or sent, if the declaration of contents has been sent, or if the product is a private product).
- Statement of where the product is bought or provided from (that means statement of the name and/or address of the shop or the importer/producer's name if the product has been sent).
- Statement if the product is a retail, a saloon or a mail order product.
- The name of the producer or importer.
- The date when the product is bought or received.

- The bar code on the product (if available).
- The batch number (if available).
- The PR number (the number which the products get when they are recorded in the Product Register (*Danish: Produktregistret*)).
- Possible specifications of the perfume content.
- Possible comments.

1.3 Overview of substances

The overview of substances (of selected chemical constituents) is as described divided into 3. For the selected chemical constituents there has been a search for the following information in connection with the environmental and health screening. The information is entered into the created database:

- Physicochemical properties
- Information about health
- Information about environmental aspects

There has been a search for information about the following physicochemical properties, and these are recorded in the database for the approximately 160 selected chemical substances (as an example, see figure 3):

- Water-solubility
- Melting point
- Boiling point
- Flash point
- Vapour pressure
- Vapour density

The screenshot shows a Microsoft Access database window titled "Microsoft Access - [Environment and health information]". The main form is titled "Information about environment and health issues (on substance level)". It features a search field for "INCI Navn" with the value "TRIETHANOLAMINE". Below this is a table with columns: CASNr, EINECSNr, ChemicalName, Function, INCI-NAME, and Restriction. The table contains one record for TRIETHANOLAMINE. Below the table is a section for "Physicochemical properties" with input fields for various properties. At the bottom, there are buttons for "Find substance (by INCI name)", "Go to start page", "Go to product information", "Open 'Environment' form", and "Open 'Health' form".

CASNr	EINECSNr	ChemicalName	Function	INCI-NAME	Restriction
102-71-6	203-049-8	2, 2', 2''-nitrioltriethanol	buffering agents	TRIETHANOLAMINE	III/1,62

Physicochemical properties

Water solubility	> 10 (v.22C) (Ref1)	g/100 ml	Vapour pressure	Not found	kPa
Melting point	21.57 (Ref2,4)	degree C	Vapour pressure		mm Hg
Boiling point	335,4 (Ref1)	degree C	Vapour density	5.2 (Ref1)	
Flash point	185 (Ref1)	degree C			

Figure 3: Physicochemical information about selected constituents

There has been a search for information about the following properties regarding health, and these are recorded in the database for the approximately 160 selected chemical substances (as an example, see figure 4):

- LD₅₀ value oral
- Other toxicity
- NOAEL value ("No Observed Adverse Effect Level")
- Allergic reactions
- Carcinogenic effects
- Reproductive effects
- Mutagenic effects
- LD₅₀ dermal
- Skin absorption
- Irritation
- Classification

In the light of this information a score for human toxicity is specified according to UMIP's scoring model.

The screenshot shows a Microsoft Access database window titled "Microsoft Access - [Health]". The main form is titled "Information about environmental and health issues (on substance level)". The substance name is "TRIETHANOLAMINE". The form is divided into several sections:

- Health**: A section with a button "Press here before entering data" and a note: "Please notice that not all text may be visible in the 'white boxes'".
- LD50**: Two input fields. The first contains "8.68 g/kg (rat. oral), (Ref4)" and the second contains "1.45 g/kg (mouse. ip), (Ref4)".
- Other toxicity**: An input field containing "Probably deathly dosis 5-15 g/kg (human, oral), (Ref4)".
- NOAEL**: An input field containing "Not found".
- Allergy**: An input field containing "Contact allergy is reported as a result of dermal exposure, (Ref4)".
- Carcinogenic effects**: An input field containing "Group 3. Inadequate evidence for carcinogenicity in humans and experimental animal (Ref8)".
- Reproductive effects**: An input field containing "Not found".
- Mutagenic effects**: An input field containing "Negative in in vitro test (Ref4)".
- LD50 (dermal)**: An input field containing "Not found".
- Skin absorption**: An input field containing "Is skin permeable (primary exposure route is through the skin), (Ref4)".
- Irritation**: An input field containing "Is a skin and eye irritant (Ref6)".
- Classification**: An input field containing "None (Ref9)".
- Classification - Danish EPA**: An input field containing "Xn, R43 (Ref10)".
- EDIP's screening model for human toxicity**: A section with a dropdown menu for "Human toxicity score" set to "4" and a text field for "Summary - health" containing "IARC group 3 (inadequate evidence), Cor".

Buttons at the bottom include "Go to 'Environment' for this particular substance", "Find substance (by INCI name)", and "Go to 'Physico-chemical' form". A note below the "Find substance" button reads: "Works only if you stand in the field 'INCI name'". The status bar at the bottom shows "Record: 1 of 1 (Filtered)" and "Form View".

Figure 4: Health information about selected constituents

There has been a search for information about the following properties regarding environmental aspects, and these are recorded in the database for the approximately 160 selected chemical substances (as an example, see figure 5):

- LC₅₀ for fish
- Other aquatic toxicity
- Aerob biodegradability
- Anaerob biodegradability
- Bio concentration factor (BCF)
- Octanol/water – partition coefficient (log K_{ow})
- Classification

In the light of this information a score for the ecotoxicity is specified consisting of a score for the exposure and the aquatic effect respectively according to the UMIP's scoring model.

Microsoft Access - [Environment]

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Information about environmental and health issues (on substance level)

Go to "Health" for this particular substance

INCI Navn: TRIETHANOLAMINE

Environment [Press here before entering data](#) Please notice that not all text may be visible in the "white boxes".

LC50 for fish	12 g/l (96 h, Pimephales promelas), (Ref3) > 5 g/l (24 h, Carassius auratus), (Ref3)	Bioconcentrationfactor (BCF)	<3.9 (Ref4)
Other aquatic toxicity	1.39 g/l (LC50, 24 h, Daphnia magna), (Ref3) 0.47-0.75 g/l (EC50, 48 h, Scenedesmus)	Partitioncoefficient (log Kow)	-1.59 (Ref2,4)
Aerob biodegradability	Easily biodegradable in activated sludge 89% (14 days), (Ref2)	Classification	None (Ref9)
Anerob biodegradability	Not found	Classification (Danish EPA)	Xn, R43 (Ref10)

EDIP's screening model for ecotoxicity

Score for aquatic env. 0

Score for exposure 1

Find substance (by INCI name) [Go to "Physico-chemical" form](#)

Works only if you stand in the field "INCI name"

Records: 1 of 1 (Filtered)

Form View FLTR NUM

Figure 5: Environmental information about selected constituents