



Safety Data Sheet according to (EC) No 1907/2006 as amended

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Blonde Conditioner Vegan

SDS No. : 708274
V001.2

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Blonde Conditioner Vegan

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Hair Color Lotion/Rinse

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA
Düsseldorf Germany
Henkelstr. 67
40191 Düsseldorf
Phone: +49 211-797-0

E-mail address of person responsible for Safety Data Sheet:

Henkel Consumer Brands, e-mail: Elisabeth.Poppe@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Serious eye irritation Category 2

Causes serious eye irritation.

Chronic hazards to the aquatic environment Category 2

Toxic to aquatic life with long lasting effects.

2.2. Label elements (CLP)

Hazard pictogram:



| | |
|--|---|
| Signal word: | Warning |
| Hazard statement: | H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. |
| Precautionary statement: Prevention | P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/face protection. |
| Precautionary statement: Response | P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage. |
| Precautionary statement: Disposal | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |

EUH208 Contains Sulisobenzone. May produce an allergic reaction.

2.3. Other hazards

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|--|---------------------|---|---|------------------|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 271-756-9 01-2119484817-22 | $\geq 1 - < 2,5$ % | Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, Oral, H373 | M acute = 1 M chronic = 1 | |
| Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride 65497-29-2 | $\geq 0,25 - < 1$ % | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M acute = 1 M chronic = 1 | |
| Cetrimonium chloride 112-02-7 203-928-6 01-2119970558-23 | $\geq 0,25 - < 1$ % | Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Skin Corr. 1C, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M acute = 10 M chronic = 1 | |
| Sulisobenzone 4065-45-6 223-772-2 01-2119958758-15 | $\geq 0,1 - < 1$ % | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 | | |

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information:

In case of adverse health effects seek medical advice.

Inhalation:

not relevant.

Skin contact:

Rinse with water. Take off all clothing contaminated by the product.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Rinse the mouth. Drink 1-2 glasses of water.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

The release of following substances is possible in case of fire:

carbon oxides.

Generation of oxygen

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

No information.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up

Dilute small quantities with large amount of water and rinse.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling advice:

No particular measures required.

Fire and explosion protection information:

No special measures required if used properly.

Hygiene measures:

Do not eat, drink or smoke while working.

Immediately remove soiled or soaked clothing.

Wash hands before work breaks and after finishing work.

Keep away from food, beverages and animal feed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.

Store far from foodstuffs.

7.3. Specific end use(s)

Hair Color Lotion/Rinse

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for

Germany

None

8.2. Exposure controls

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

Not needed.

Hand protection:

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Manufacturer e.g. German company KCL, type Dermatril.

Eye protection:

Protective goggles

Skin protection:

Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | emulsion O/W, thick blue |
| Odor | floral |
| Physical state | liquid |
| Melting point | Currently under determination |
| Initial boiling point | Currently under determination |
| Flammability | Currently under determination |
| Explosive limits | Currently under determination |
| Flash point | Not applicable |
| Auto-ignition temperature | Currently under determination |
| Decomposition temperature | Currently under determination |
| pH (20 °C (68 °F)) | 6,20 - 6,80 pH value::47300 |
| Viscosity (kinematic) | Currently under determination |
| Viscosity, dynamic (Brookfield; Instrument: RVDV II+; 20 °C (68 °F); speed of rotation: 20 min-1; Spindle No: 6) | 6.000 - 12.000 mPa.s Viscosity (Brookfield)::49200 |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Miscible |
| Partition coefficient: n-octanol/water | Currently under determination |
| Vapour pressure | Currently under determination |
| Density (20 °C (68 °F)) | 0,980 - 1,010 g/cm3 Density and Specific Gravity by Digital Density Meter::50000 |
| Relative vapour density: | Currently under determination |
| Particle characteristics | Currently under determination |

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

None known.

10.3. Possibility of hazardous reactions

See section reactivity
None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

No information exists about acute toxic, irritative or otherwise harmful effects caused by the product.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---------------|---------------|---------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | LD50 | 3.190 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride 65497-29-2 | LD50 | 12.500 mg/kg | rat | not specified |
| Cetrimonium chloride 112-02-7 | LD50 | 699 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Sulisobenzone 4065-45-6 | LD50 | > 6.400 mg/kg | rat | not specified |

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---------------------------------|---------------|---------------|---------|---------------|
| Sulisobenzone 4065-45-6 | LD50 | > 5.000 mg/kg | rabbit | not specified |

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|----------------------------|------------------|---------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Cetrimonium chloride 112-02-7 | Category 1C (corrosive) | 4 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Sulisobenzone 4065-45-6 | moderately irritating | 2 d | human | Patch Test |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|--|---------------|-------------------------------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | Category 1 (irreversible effects on the eye) | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Cetrimonium chloride 112-02-7 | highly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Sulisobenzone 4065-45-6 | irritating | | rabbit | Draize Test |
| Sulisobenzone 4065-45-6 | corrosive | | Bovine, cornea, in vitro test | OECD Guideline 437 (BCOP) |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|--|-----------------|------------------------------|------------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Cetrimonium chloride 112-02-7 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Sulisobenzone 4065-45-6 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--------------------------------------|---------|--|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | negative | in vitro mammalian cell micronucleus test | with and without | | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride 65497-29-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | Ames Test |
| Cetrimonium chloride 112-02-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Cetrimonium chloride 112-02-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Cetrimonium chloride 112-02-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Sulisobenzone 4065-45-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | Ames Test |
| Sulisobenzone 4065-45-6 | negative | in vitro mammalian chromosome aberration test | with and without | | Chromosome Aberration Test |
| Sulisobenzone 4065-45-6 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|---------------------------------------|----------------------|----------------------|---------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | NOAEL P 30 mg/kg NOAEL F1 30 mg/kg | screening | oral: gavage | rat | OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| Cetrimonium chloride 112-02-7 | NOAEL P 16 mg/kg NOAEL F1 24 mg/kg | two-generation study | oral: feed | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|-------------------|----------------------|--|---------|--|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | NOAEL 10 mg/kg | oral: gavage | 28 d daily, 7 d/w | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride 65497-29-2 | NOAEL 1.000 mg/kg | oral: feed | 30 d | rat | not specified |
| Cetrimonium chloride 112-02-7 | NOAEL 100 mg/kg | oral: gavage | 28 days once daily, 5 times a week | rat | EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |
| Cetrimonium chloride 112-02-7 | NOAEL 113 mg/kg | oral: feed | 90 days daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Sulisobenzene 4065-45-6 | NOAEL >= 20 mg/kg | oral: feed | 28-90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|------------------|---------------|---|--|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | LC50 | 3,5 mg/l | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | NOEC | 0,24 mg/l | 9 d | Danio rerio | OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages) |
| Guar gum, 2-hydroxy-3-(trimethylammonio)propyl ether, chloride 65497-29-2 | LC50 | > 0,2 - 0,8 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Cetrimonium chloride 112-02-7 | LC50 | 0,7 - 1 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Cetrimonium chloride 112-02-7 | NOEC | 0,25 mg/l | 30 d | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 210 (fish early life stage toxicity test) |
| Sulisobenzone 4065-45-6 | NOEC | 1,048 mg/l | 14 d | Pimephales promelas | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Sulisobenzone 4065-45-6 | LC50 | 25 mg/l | 96 h | Danio rerio (reported as Brachydanio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|-----------|---------------|---------------|--|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | EC50 | 1,39 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Cetrimonium chloride 112-02-7 | EC50 | 0,09 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Sulisobenzone 4065-45-6 | LC50 | 50 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|-------------|---------------|---------------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | NOEC | 0,128 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Cetrimonium chloride 112-02-7 | NOEC | 0,0068 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Sulisobenzone | NOEC | > 5 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |

| | | | | | |
|-----------|--|--|--|--|---------------------------|
| 4065-45-6 | | | | | magna, Reproduction Test) |
|-----------|--|--|--|--|---------------------------|

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|------------|---------------|---------------------------------|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | EC50 | 3,48 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | EC10 | 0,78 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Cetrimonium chloride 112-02-7 | EC50 | 0,08 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Cetrimonium chloride 112-02-7 | EC10 | 0,047 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Sulisobenzone 4065-45-6 | EC50 | > 200 mg/l | 72 h | Chlorella vulgaris | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|--------------|---------------|----------------------------|--|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | EC50 | 43 mg/l | 3 h | activated sludge, domestic | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Cetrimonium chloride 112-02-7 | EC10 | 0,4 mg/l | 16 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |
| Sulisobenzone 4065-45-6 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|---------------------------------|---------------|---------------|------------------|---|
| Quaternary ammonium compounds, C20-22- alkyltrimethyl, chlorides 68607-24-9 | not readily biodegradable. | aerobic | 80 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Guar gum, 2-hydroxy-3- (trimethylammonio)propyl ether, chloride 65497-29-2 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Guar gum, 2-hydroxy-3- (trimethylammonio)propyl ether, chloride 65497-29-2 | not inherently biodegradable | aerobic | 51 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |
| Cetrimonium chloride 112-02-7 | inherently biodegradable | aerobic | 75 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |
| Cetrimonium chloride 112-02-7 | readily biodegradable | aerobic | 95 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Sulisobenzone 4065-45-6 | readily biodegradable | not specified | 66,87 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|----------------------------------|-----------------------------------|---------------|-------------|------------------------|--|
| Cetrimonium chloride 112-02-7 | > 33 - 160 | 35 d | | Lepomis macrochirus | EPA OPP 165-4 (Laboratory Studies of Pesticide Accumulation in Fish) |

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---|--------|-------------|--|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | 3,29 | 20 °C | QSAR (Quantitative Structure Activity Relationship) |
| Cetrimonium chloride 112-02-7 | 3,23 | | EU Method A.8 (Partition Coefficient) |
| Sulisobenzone 4065-45-6 | 0,313 | 22 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | PBT / vPvB |
|---|---|
| Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Cetrimonium chloride 112-02-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Sulisobenzone 4065-45-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:
Consider national regulations.

SECTION 14: Transport information**14.1. UN number or ID number**

| | |
|------|------|
| ADR | 3082 |
| RID | 3082 |
| ADN | 3082 |
| IMDG | 3082 |
| IATA | 3082 |

14.2. UN proper shipping name

| | |
|------|---|
| ADR | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyltrimethyl ammonium chloride) |
| RID | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyltrimethyl ammonium chloride) |
| ADN | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyltrimethyl ammonium chloride) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyltrimethyl ammonium chloride) |
| IATA | Environmentally hazardous substance, liquid, n.o.s. (Alkyltrimethyl ammonium chloride) |

14.3. Transport hazard class(es)

| | |
|------|---|
| ADR | 9 |
| RID | 9 |
| ADN | 9 |
| IMDG | 9 |
| IATA | 9 |

14.4. Packing group

| | |
|------|-----|
| ADR | III |
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |

14.5. Environmental hazards

| | |
|------|------------------|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | Marine pollutant |
| IATA | not applicable |

14.6. Special precautions for user

| | |
|-----|----------------|
| ADR | not applicable |
|-----|----------------|

| | |
|------|----------------|
| | Tunnelcode: |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations/information (Germany):

| | |
|--------------------------------------|--|
| WGK: | WGK 2: obviously hazardous to water (Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended) |
| Storage class according to TRGS 510: | Classification in conformity with the calculation method 10 |

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Further information:

This information is not related to the use of the product, it is based on our current level of knowledge.

| | |
|-------------|---|
| ED: | Substance identified as having endocrine disrupting properties |
| EU OEL: | Substance with a Union workplace exposure limit |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148 |
| EU EXPLD 2 | Substance listed in Annex II, Reg (EC) No. 2019/1148 |
| SVHC: | Substance of very high concern (REACH Candidate List) |
| PBT: | Substance fulfilling persistent, bioaccumulative and toxic criteria |
| PBT/vPvB: | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB: | Substance fulfilling very persistent and very bioaccumulative criteria |