



HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 7/13/2021 Revision date: 10/22/2024 Supersedes version of: 1/10/2024 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Trade name : HALO - Hydrophobic Shampoo
UFI : D1HS-F6W4-M209-FFUE
Product code : 115555679
Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Exterior cleaning products - all vehicle types

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Brands Alliance s.r.o. Ltd
Pri Šajbách 1
SK 831 06 Bratislava
T +421244871700
msds@brandsalliance.eu, www.brandsalliance.eu

Distributor

AENSO UK LTD
Chandos House
School Lane
GB MK18 1HD Buckingham
T +441280703163

1.4. Emergency telephone number

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|--------------------------|------------------|---------|
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER | +44 20 7188 7188 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

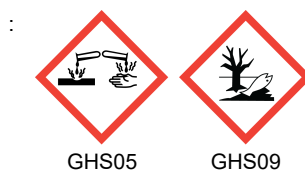
Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Danger
Contains : Alkyl glucoside

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--------------------------------|---|
| Hazard statements (CLP) | : H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P102 - Keep out of reach of children. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor. P391 - Collect spillage. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards

Contains PBTvPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-----------|--|
| Alkyl glucoside | CAS-No.: 68515-73-1 EC-No.: 500-220-1 | 5 – 10 | Eye Dam. 1, H318 |
| Citric acid substance with national workplace exposure limit(s) (DE) | CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3 | 1 – 5 | Eye Irrit. 2, H319 |
| Dipropylene glycol methyl ether substance with national workplace exposure limit(s) (GB, NL, PL, SK) | CAS-No.: 34590-94-8 EC-No.: 252-104-2 | 1 – 5 | Acute Tox. 4 (Inhalation:dust,mist), H332 |
| Trilon(R) M | CAS-No.: 164462-16-2 EC-No.: 423-270-5 | 1 – 5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether substance with national workplace exposure limit(s) (DE, GB, NL, PL, SK); substance with a Community workplace exposure limit | CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 | 1 – 5 | Eye Irrit. 2, H319 STOT RE 2, H373 |
| Cyclopentasiloxane substance listed on REACH Candidate List PBT substance; vPvB substance | CAS-No.: 541-02-6 EC-No.: 208-764-9 | 0.1 – 0.5 | Not classified |
| Cyclohexasiloxane substance listed on REACH Candidate List PBT substance; vPvB substance | CAS-No.: 540-97-6 EC-No.: 208-762-8 | 0.1 – 0.5 | Not classified |
| Sodium chloride | CAS-No.: 7647-14-5 EC-No.: 231-598-3 | 0.1 – 0.5 | Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| Acetic acid substance with national workplace exposure limit(s) (DE, GB, PL, SK); substance with a Community workplace exposure limit | CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 | 0.1 – 0.5 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-------|--|
| Sodium hydroxide substance with national workplace exposure limit(s) (GB, PL, SK) | CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 | < 0.1 | Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| Citral substance with national workplace exposure limit(s) (PL) | CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 | < 0.1 | Skin Irrit. 2, H315 Skin Sens. 1, H317 |

| Specific concentration limits: | | |
|--------------------------------|---|--|
| Name | Product identifier | Specific concentration limits (%) |
| Acetic acid | CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 | (10 ≤ C < 25) Skin Irrit. 2; H315 (10 ≤ C < 25) Eye Irrit. 2; H319 (25 ≤ C < 90) Skin Corr. 1B; H314 (90 ≤ C ≤ 100) Skin Corr. 1A; H314 |
| Sodium hydroxide | CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 | (0.5 ≤ C < 2) Skin Irrit. 2; H315 (0.5 ≤ C < 2) Eye Irrit. 2; H319 (2 ≤ C < 5) Skin Corr. 1B; H314 (5 ≤ C ≤ 100) Skin Corr. 1A; H314 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : If you feel unwell, seek medical advice. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : None under normal conditions. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------|-------------------|
| Fire hazard | : No fire hazard. |
|-------------|-------------------|

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--|--------------------------------|
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|--|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------|---|
| Technical measures | : Keep in a cool, well-ventilated place away from heat. |
| Storage conditions | : Keep cool. Protect from sunlight. |
| Packaging materials | : Store always product in container of same material as original container. |

7.3. Specific end use(s)

No additional information available

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Sodium hydroxide (1310-73-2) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| Local name | Sodium hydroxide |
| WEL STEL (OEL STEL) | 2 mg/m ³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-(2-Butoxyethoxy)ethanol |
| WEL TWA (OEL TWA) | 67.5 mg/m ³ |
| | 10 ppm |
| WEL STEL (OEL STEL) | 101.2 mg/m ³ |
| | 15 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Dipropylene glycol methyl ether (34590-94-8) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | (2-methoxymethylethoxy) propanol |
| WEL TWA (OEL TWA) | 308 mg/m ³ |
| | 50 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Acetic acid (64-19-7) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Acetic acid |
| WEL TWA (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| WEL STEL (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:
Wear recommended personal protective equipment.
Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves

| Hand protection | | | | | |
|-------------------|--|-------------------|----------------|-------------|--|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR), Chloroprene rubber (CR) | 6 (> 480 minutes) | 0,4-0,7 | | EN ISO 374-1, EN ISO 374, EN 374-2 |

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : light red. |
| Odour | : Fruity. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : < -20 °C |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|---|---------------------|
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Alkyl glucoside (68515-73-1)

| | |
|--------------------|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

Trilon(R) M (164462-16-2)

| | |
|-----------------------------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat (Dust/Mist) | > 4.25 mg/l Source: ECHA |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Sodium hydroxide (1310-73-2) | |
|---|--|
| LD50 oral rat | 140 – 340 mg/kg Source: ECHA |
| LD50 dermal rabbit | 1350 mg/kg Source: HSDB |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| LD50 oral rat | 5660 mg/kg |
| LD50 dermal rabbit | 2764 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 2090 - 3645 |
| Citric acid (77-92-9) | |
| LD50 oral rat | 3000 mg/kg Source: OECD Screening Information Data Set |
| LD50 oral | 5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 4500 - 6400 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| Sodium chloride (7647-14-5) | |
| LD50 oral rat | 3000 mg/kg Source: International Uniform Chemical Information Database |
| LD50 dermal rabbit | > 10000 mg/kg bodyweight Animal: rabbit |
| LC50 Inhalation - Rat (Dust/Mist) | > 10.5 mg/l Source: Corporate Solution From Thomson Micromedex |
| Cyclopentasiloxane (541-02-6) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | 8.67 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OTS 798.1150 (Acute inhalation toxicity), 95% CL: 7,3 - 10,32 |
| Cyclohexasiloxane (540-97-6) | |
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| Dipropylene glycol methyl ether (34590-94-8) | |
| LD50 oral rat | > 5000 mg/l Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | 9510 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 3000 mg/m³ Source: ECHA |
| Acetic acid (64-19-7) | |
| LD50 oral rat | 3310 mg/kg bodyweight Animal: rat |
| LD50 oral | 4960 mg/kg bodyweight Animal: mouse |
| LD50 dermal rabbit | 1060 mg/kg Source: HSDB, NITE |
| LD50 dermal | 1060 mg/kg |
| LC50 Inhalation - Rat (Vapours) | > 40 mg/l Source: ECHA Registered substances |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--|--|
| Citral (5392-40-5) | |
| LD50 oral rat | ≈ 6800 mg/kg bodyweight Animal: rat |
| LD50 oral | 4960 mg/kg |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat |
| LD50 dermal rabbit | 2250 mg/kg |
| LD50 dermal | 2250 mg/kg |
| Skin corrosion/irritation | : Not classified |
| Sodium hydroxide (1310-73-2) | |
| pH | 1.5 Source: HSDB |
| Sodium chloride (7647-14-5) | |
| pH | 6.7 Source: The Chemical Database, The Department of Chemistry at the University of Akron |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Sodium hydroxide (1310-73-2) | |
| pH | 1.5 Source: HSDB |
| Sodium chloride (7647-14-5) | |
| pH | 6.7 Source: The Chemical Database, The Department of Chemistry at the University of Akron |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Trilon(R) M (164462-16-2) | |
| NOAEL (chronic, oral, animal/male, 2 years) | 262.2 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: carcinogenicity (migrated information) |
| NOAEL (chronic, oral, animal/female, 2 years) | 333.9 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: carcinogenicity (migrated information) |
| Citral (5392-40-5) | |
| NOAEL (chronic, oral, animal/male, 2 years) | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information) |
| Reproductive toxicity | : Not classified |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| NOAEL (animal/male, F0/P) | > 452 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other: |
| NOAEL (animal/female, F0/P) | > 470 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other: |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Alkyl glucoside (68515-73-1) | |
| NOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--|---|
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | < 200 mg/kg bodyweight Animal: rat, Guideline: other., Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Citric acid (77-92-9) | |
| LOAEL (oral, rat, 90 days) | 8000 mg/kg bodyweight Animal: rat |
| NOAEL (oral, rat, 90 days) | 4000 mg/kg bodyweight Animal: rat |
| Cyclopentasiloxane (541-02-6) | |
| NOAEL (oral, rat, 90 days) | ≈ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | ≥ 1600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| Cyclohexasiloxane (540-97-6) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Dipropylene glycol methyl ether (34590-94-8) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: other:KANPOGYO No.700, YAKUHATSU No. 1039.61, and KIKYKU No. 1014. |
| NOAEL (dermal, rat/rabbit, 90 days) | 2850 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| Acetic acid (64-19-7) | |
| NOAEL (oral, rat, 90 days) | 290 mg/kg bodyweight Animal: rat, Animal sex: male |
| Citral (5392-40-5) | |
| LOAEC (inhalation, rat, gas, 90 days) | 68 ppm Animal: rat, Animal sex: female |
| NOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| NOAEC (inhalation, rat, gas, 90 days) | 34 ppm Animal: rat, Animal sex: female |
| NOAEL (subchronic, oral, animal/male, 90 days) | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Aspiration hazard | : Not classified |
| Trilon(R) M (164462-16-2) | |
| Viscosity, kinematic | Not applicable |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| Viscosity, kinematic | 6.794 mm²/s |
| Sodium chloride (7647-14-5) | |
| Viscosity, kinematic | Not applicable |
| Cyclopentasiloxane (541-02-6) | |
| Viscosity, kinematic | 3.7 mm²/s Temp.: 'other:25.0°C' Parameter: 'kinematic viscosity (in mm²/s)' |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Cyclohexasiloxane (540-97-6)

| | |
|----------------------|---|
| Viscosity, kinematic | 5.6 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |
|----------------------|---|

Acetic acid (64-19-7)

| | |
|----------------------|-------------|
| Viscosity, kinematic | 1.015 mm²/s |
|----------------------|-------------|

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Alkyl glucoside (68515-73-1)

| | |
|----------------------|---|
| LC50 - Fish [1] | 100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | 170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

Trilon(R) M (164462-16-2)

| | |
|----------------------|--|
| LC50 - Fish [1] | > 110 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 96h - Algae [1] | > 0.63 mg/l Source: ECHA |
| LOEC (chronic) | > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d' |

Sodium hydroxide (1310-73-2)

| | |
|----------------------|--|
| LC50 - Fish [1] | 125 mg/l |
| EC50 - Crustacea [1] | 40.4 mg/l Test organisms (species): Ceriodaphnia sp. |

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

| | |
|----------------------|---|
| LC50 - Fish [1] | 1300 mg/l Test organisms (species): Lepomis macrochirus |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

Citric acid (77-92-9)

| | |
|------------------------------------|--|
| LC50 - Fish [1] | 48 mg/l Source: ECOTOX |
| EC50 - Other aquatic organisms [1] | > 50 mg/l Test organisms (species): other aquatic crustacea: |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Sodium chloride (7647-14-5) | |
|--|--|
| LC50 - Fish [1] | 5840 mg/l Test organisms (species): Lepomis macrochirus |
| EC50 72h - Algae [1] | 0.0269 mg/l |
| LOEC (chronic) | 441 mg/l Test organisms (species): Daphnia pulex Duration: '21 d' |
| NOEC (chronic) | 314 mg/l Test organisms (species): Daphnia pulex Duration: '21 d' |
| Cyclopentasiloxane (541-02-6) | |
| LC50 - Fish [1] | > 16 µg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 2.9 µg/l Test organisms (species): Daphnia magna |
| Cyclohexasiloxane (540-97-6) | |
| LC50 - Fish [1] | 0.028 mg/l Source: Quantitative Structure Activity Relation |
| EC50 96h - Algae [1] | 0.033 mg/l Source: Quantitative Structure Activity Relation |
| Dipropylene glycol methyl ether (34590-94-8) | |
| LC50 - Fish [1] | > 1000 mg/l Test organisms (species): Poecilia reticulata |
| EC50 - Other aquatic organisms [1] | 1930 mg/l Test organisms (species): other aquatic crustacea: Acartia tonsa |
| EC50 72h - Algae [1] | > 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | > 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d' |
| NOEC (chronic) | ≥ 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d' |
| Acetic acid (64-19-7) | |
| LC50 - Fish [1] | > 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| LC50 - Fish [2] | > 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | > 300.82 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): Skeletonema costatum |
| EC50 72h - Algae [2] | > 300.82 mg/l Test organisms (species): Skeletonema costatum |
| Citral (5392-40-5) | |
| LC50 - Fish [1] | 6.78 mg/l Test organisms (species): Leuciscus idus |
| EC50 - Crustacea [1] | 6.8 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

12.2. Persistence and degradability

| HALO - Hydrophobic Shampoo | |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
| Alkyl glucoside (68515-73-1) | |
| Persistence and degradability | Not rapidly degradable |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--|------------------------|
| Trilon(R) M (164462-16-2) | |
| Persistence and degradability | Not rapidly degradable |
| Sodium hydroxide (1310-73-2) | |
| Persistence and degradability | Not rapidly degradable |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| Persistence and degradability | Not rapidly degradable |
| Citric acid (77-92-9) | |
| Persistence and degradability | Not rapidly degradable |
| Sodium chloride (7647-14-5) | |
| Persistence and degradability | Not rapidly degradable |
| Cyclopentasiloxane (541-02-6) | |
| Persistence and degradability | Not rapidly degradable |
| Cyclohexasiloxane (540-97-6) | |
| Persistence and degradability | Not rapidly degradable |
| Dipropylene glycol methyl ether (34590-94-8) | |
| Persistence and degradability | Not rapidly degradable |
| Acetic acid (64-19-7) | |
| Persistence and degradability | Rapidly degradable |
| Citral (5392-40-5) | |
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| | |
|--|--|
| Trilon(R) M (164462-16-2) | |
| Partition coefficient n-octanol/water (Log Pow) | -4 Source: ECHA |
| Sodium hydroxide (1310-73-2) | |
| Partition coefficient n-octanol/water (Log Pow) | -3.88 Source: SRC |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.56 |
| Citric acid (77-92-9) | |
| Partition coefficient n-octanol/water (Log Pow) | -1.7 Source: ICSC |
| Sodium chloride (7647-14-5) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.46 Source: Quantitative Structure Activity Relation |
| Cyclopentasiloxane (541-02-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 5.2 Source: Corporate Solution From Thomson Micromedex |
| Cyclohexasiloxane (540-97-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 6.33 Source: National Library of Medicine |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Acetic acid (64-19-7)

| | |
|---|-------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.17 Source: HSDB,ChemIDplus |
|---|-------------------------------|

Citral (5392-40-5)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 3.45 |
|---|------|

12.4. Mobility in soil

Alkyl glucoside (68515-73-1)

| | |
|------------------|-------------------------|
| Mobility in soil | 0.2624 Source: EPISUITE |
|------------------|-------------------------|

Cyclopentasiloxane (541-02-6)

| | |
|------------------|--------------------|
| Mobility in soil | 16000 Source: HSDB |
|------------------|--------------------|

Cyclohexasiloxane (540-97-6)

| | |
|------------------|--------------------|
| Mobility in soil | 79000 Source: HSDB |
|------------------|--------------------|

Acetic acid (64-19-7)

| | |
|------------------|--------------------|
| Mobility in soil | 1.153 Source: ECHA |
|------------------|--------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|-------------------------------|---|
| Cyclopentasiloxane (541-02-6) | This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII |
| Cyclohexasiloxane (540-97-6) | This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Avoid release to the environment. Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |
| Ecological waste information | : Avoid release to the environment. |

SECTION 14: Transport information


In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|--------------------------------------|----------------|----------------|----------------|----------------|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| ADR | IMDG | IATA | ADN | RID |
|--|----------------|----------------|----------------|---|
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable |  |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

Inland waterway transport
Not applicable

Rail transport
No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---------------|--|
| Reference code | Applicable on | Entry title or description |
| 3(a) | Acetic acid | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| EU restriction list (REACH Annex XVII) | | |
|--|---|--|
| Reference code | Applicable on | Entry title or description |
| 3(b) | HALO - Hydrophobic Shampoo ; Alkyl glucoside ; Sodium hydroxide ; 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether ; Dipropylene glycol methyl ether ; Acetic acid ; Citral | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | HALO - Hydrophobic Shampoo ; Sodium hydroxide | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | Acetic acid | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |
| 55. | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 2-(2-butoxyethoxy)ethanol (DEGBE) |
| 70. | Cyclopentasiloxane | Octamethylcyclotetrasiloxane (D4); Decamethylcyclopentasiloxane (D5); Dodecamethylcyclohexasiloxane (D6) |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: Decamethylcyclopentasiloxane (EC 208-764-9, CAS 541-02-6), Dodecamethylcyclohexasiloxane (EC 208-762-8, CAS 540-97-6)

Contains substance(s) listed on the REACH Candidate List $< 0.1\%$ or SCL.

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

Full text of H- and EUH-statements:

| | |
|---------------------|-----------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
|---------------------|-----------------------------------|

HALO - Hydrophobic Shampoo

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Full text of H- and EUH-statements: | |
|--|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.