

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

1.4. Emergency telephone number

No additional information available

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, H411

Category 2

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) :





GHS05 GHS09

Signal word (CLP) : Danger
Contains : Alkyl glucoside

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.

Safety Data Sheet

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

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 ≥ 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
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

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]
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	$(10 \le C < 25)$ Skin Irrit. 2; H315 $(10 \le C < 25)$ Eye Irrit. 2; H319 $(25 \le C < 90)$ Skin Corr. 1B; H314 $(90 \le C \le 100)$ Skin Corr. 1A; H314
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	$(0.5 \le C < 2)$ Skin Irrit. 2; H315 $(0.5 \le C < 2)$ Eye Irrit. 2; H319 $(2 \le C < 5)$ Skin Corr. 1B; H314 $(5 \le C \le 100)$ 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.

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.

Safety Data Sheet

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

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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

EU - Indicative Occupational Exposure Limit (IOEL)

Local name 2-(2-Butoxyethoxy)ethanol

10/22/2024 (Revision date) EN (English) 4/18

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)		
IOEL TWA	67.5 mg/m³	
IOEL STEL	101.2 mg/m³	
	15 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Acetic acid (64-19-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Acetic acid	
IOEL TWA	25 mg/m³	
IOEL STEL	50 mg/m³	
	20 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	

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

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

Safety Data Sheet

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

Hand protection					
Туре	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

: Liquid Physical state Appearance : Liquid. Colour light red. Odour Fruity.

Odour threshold : No data available No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available

: < -20 °C Freezing point

: No data available Boiling point No data available Flash point Auto-ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable : No data available Vapour pressure 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.

Safety Data Sheet

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

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	Inform	ation	on f	tovical	logical	offocts

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : 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
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; diethylen	e 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

Safety Data Sheet

Sodium chloride (7647-14-5)			
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		
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)			
рН	1.5 Source: HSDB		
Sodium chloride (7647-14-5)	Sodium chloride (7647-14-5)		
рН	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)			
рН	1.5 Source: HSDB		

Safety Data Sheet

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 Carcinogenicity	: Not classified : Not classified
Trilon(R) M (164462-16-2)	. Not dassilled
	200 0 modes had been into Animal and Animal and Ocidating OFOR Ocidating AFO
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 glyc	ol 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 Alkyl glucoside (68515-73-1)	: Not classified
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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)
2-(2-butoxyethoxy)ethanol; diethylene glyc	ol 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)
	I

Safety Data Sheet

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

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 (subacute, oral, animal/male, 28 days)	> mg/kg bodyweight		
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)'		
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 : Not classified

(acute)

Hazardous to the aquatic environment, long–term : Toxic to aquatic life with long lasting effects.

(chronic)

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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	

Safety Data Sheet

Alkyl glucoside (68515-73-1)				
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:			
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			

Safety Data Sheet

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

Dipropylene glycol methyl ether (34590-94-8)	
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 Hydranhahia Champas		
HALO - Hydrophobic Shampoo		
Persistence and degradability	Not rapidly degradable	
Alkyl glucoside (68515-73-1)		
Persistence and degradability	Not rapidly degradable	
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	

Safety Data Sheet

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
Acetic acid (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: HSDB,ChemlDplus
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

Safety Data Sheet

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

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 Waste treatment methods

Additional information

Sewage disposal recommendations

Product/Packaging disposal recommendations

: Disposal must be done according to official regulations.

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Disposal must be done according to official regulations.

environment. Disposal must be done according to official regulations.

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

Do not re-use empty containers.

Avoid release to the environment.

Ecological waste information

European List of Waste (LoW, EC 2000/532) 16 05 08* - discarded organic chemicals consisting of or containing dangerous substances 20 01 39 - plastics

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
4.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping	ı name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard cl	lass(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	¥2>
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haza	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Dangerous for the environment: Yes

14.6. Special precautions for user

Overland transport

Not applicable

Safety Data Sheet

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

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
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)

Safety Data Sheet

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

REACH Candidate List (SVHC)

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

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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 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

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	

Safety Data Sheet

Abbreviations and acronyms:		
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	
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	
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.	

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:		
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.	
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	

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.