



HG natural stone bathroom cleaner

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 25/02/2023 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : HG natural stone bathroom cleaner
UFI : TX3X-NMF7-U00W-WRQH
Product code : 223 ART
Type of product : Detergent
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 : Cleaning/care products for stone and tiles - regular use

1.2.2. Uses advised against

Restrictions on use : All other uses not recommended above

1.3. Details of the supplier of the safety data sheet

Manufacturer

HG International B.V.
P.J. Oudweg 41
NL- 1314 CJ Almere
The Netherlands
T +31 (0)36 54 94 700
safety@hg.eu - www.hg.eu

Importer

HG UKI LTD
Weston Business Centre
Parsonage Road
UK- CM22 6PU Takeley – Essex
United Kingdom
T +44 (0) 1206 822 744
www.hg.eu

1.4. Emergency telephone number

Emergency number : +31 (0)36 54 94 777
Only for medical personnel
Mon-Fri 09:00 AM - 05:00 PM (CEST)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
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]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

: Danger

Contains

: Alcohols, C12-14, ethoxylated, sulfates, sodium salts; Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

Hazard statements (CLP)

: H315 - Causes skin irritation.
H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear eye protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16	$\geq 5 - < 7$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No.: 68155-07-7 EC-No.: 931-329-6 REACH-no: 01-2119490100-53	$\geq 2 - < 5$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5	$\geq 0.1 - < 1$	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS-No.: 52-51-7 EC-No.: 200-143-0 EC Index-No.: 603-085-00-8	≥ 0.001 – < 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)
Bornan-2-one substance with national workplace exposure limit(s) (GB)	CAS-No.: 76-22-2 EC-No.: 200-945-0 REACH-no: 01-2119966156-31	≥ 0.001 – < 0.1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371
Diphenyl ether substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545-33	≥ 0.001 – < 0.1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Sodium hydroxide; caustic soda substance with national workplace exposure limit(s) (GB)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	≥ 0.001 – < 0.01	Met. Corr. 1, H290 Skin Corr. 1A, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16	(5 ≤C < 10) Eye Irrit. 2, H319 (10 ≤C < 100) Eye Dam. 1, H318
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5	(1 ≤C < 10) Eye Irrit. 2, H319 (10 ≤C < 100) Eye Dam. 1, H318
Sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	(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 after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
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 skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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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.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Intense heat may cause container to burst.
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Sulphur oxides. Metallic oxides.

5.3. Advice for firefighters

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.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Do not touch or walk on the spilled product. Avoid contact with skin and eyes. Do not breathe mist, vapours.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Do not touch or walk on the spilled product. Dilute spills with water and mop up. Move containers from spill area.
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 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Empty containers retain product residue and can be hazardous.
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe mist, vapours. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. 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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight.

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Storage temperature	: > 0 – < 30 °C
Heat and ignition sources	: Keep away from heat and direct sunlight.
Special rules on packaging	: Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.

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

Bornan-2-one (76-22-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Bornan-2-one
WEL TWA (OEL TWA) [1]	13 mg/m ³
WEL TWA (OEL TWA) [2]	2 ppm
WEL STEL (OEL STEL)	19 mg/m ³
WEL STEL (OEL STEL) [ppm]	3 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Diphenyl ether (101-84-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Diphenyl ether
IOEL TWA	7 mg/m ³
IOEL TWA [ppm]	1 ppm
IOEL STEL	14 mg/m ³
IOEL STEL [ppm]	2 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
United Kingdom - Occupational Exposure Limits	
Local name	Diphenyl ether
WEL TWA (OEL TWA) [1]	7 mg/m ³
WEL TWA (OEL TWA) [2]	1 ppm
WEL STEL (OEL STEL)	14 mg/m ³
WEL STEL (OEL STEL) [ppm]	2 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Sodium hydroxide; caustic soda (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

8.1.2. Recommended monitoring procedures

No additional information available

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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:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Wear foot protection.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields

Eye protection			
Type	Field of application	Characteristics	Standard
Chemical goggles or face shield	Droplet		EN 166
Safety glasses with side shields	Normal use conditions		EN 166

8.2.2.2. Skin protection

Skin and body protection:

If there is a risk of liquid being splashed : Long sleeved protective clothing. Chemical resistant safety shoes

Skin and body protection	
Type	Standard
Long sleeved protective clothing	

Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white.
Odour	: perfumed.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: 0 °C
Boiling point	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 193 – 195 °C (Closed cup; does not sustain combustion)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 9.5
pH solution concentration	: 100 %
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 1400 mPa.s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.014
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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.

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

Acute toxicity (oral) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (dermal) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (inhalation) : Not classified (Conclusive but not sufficient for classification)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal	1600 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l

Isotridecanol, ethoxylated (69011-36-5)

LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≈ 5960 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:

Bornan-2-one (76-22-2)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 10 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l

Diphenyl ether (101-84-8)

LD50 oral rat	2830 mg/kg Source: ECHA
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Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit

Skin corrosion/irritation : Causes skin irritation.
pH: 9.5

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Sodium hydroxide; caustic soda (1310-73-2)

pH > 14

Serious eye damage/irritation : Causes serious eye damage.
pH: 9.5

Sodium hydroxide; caustic soda (1310-73-2)

pH > 14

Respiratory or skin sensitisation : Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity : Not classified (Conclusive but not sufficient for classification)
Carcinogenicity : Not classified (Conclusive but not sufficient for classification)
Reproductive toxicity : Not classified (Conclusive but not sufficient for classification)
STOT-single exposure : Not classified (Conclusive but not sufficient for classification)

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

STOT-single exposure May cause respiratory irritation.

Bornan-2-one (76-22-2)

STOT-single exposure May cause damage to organs.

STOT-repeated exposure : Not classified (Conclusive but not sufficient for classification)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

LOAEL (oral, rat, 90 days) 25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:

NOAEL (oral, rat, 90 days) > 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:

Isotridecanol, ethoxylated (69011-36-5)

NOAEL (oral, rat, 90 days) ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Diphenyl ether (101-84-8)

NOAEL (dermal, rat/rabbit, 90 days) 1000 mg/kg bodyweight Animal: rat

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)

NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified (Conclusive but not sufficient for classification)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term (acute) : Not classified (Conclusive but not sufficient for classification)

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
LC50 - Fish [1]	7.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	0.95 mg/l Scenedesmus subspicatus
Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
LC50 - Fish [1]	26.4 mg/l
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1.4 mg/l waterflea
EC50 - Other aquatic organisms [2]	0.4 mg/l
EC50 72h - Algae [1]	0.25 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	0.37 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	0.02 mg/l Source: NCIS
LOEC (chronic)	0.88 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	21.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d'
Isotridecanol, ethoxylated (69011-36-5)	
LC50 - Fish [1]	> 1 mg/l
EC50 - Crustacea [1]	1.5 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1 mg/l waterflea
EC50 96h - Algae [1]	11.5 mg/l Source: EPISUITE v4.1
Diphenyl ether (101-84-8)	
LC50 - Fish [1]	> 0.1 – ≤ 1 mg/l
EC50 - Crustacea [1]	1.96 mg/l Test organisms (species): Daphnia magna
ErC50 algae	0.455 mg/l Source: ECHA
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)	
LC50 - Fish [1]	≈ 2.4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	≈ 3.2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≈ 7.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	≈ 2.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)	
LOEC (chronic)	≈ 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≈ 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≈ 0.32 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	2 mg/l
Sodium hydroxide; caustic soda (1310-73-2)	
LC50 - Fish [1]	> 35 mg/l
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea
12.2. Persistence and degradability	
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Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
Chemical oxygen demand (COD)	0.51 g O ₂ /g substance
Biodegradation	80 % (OECD 302B method)
Additional information	95 % biodegradation (OECD 301E method)
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)	
Biodegradation	92.5 % (OECD 301B method)
12.3. Bioaccumulative potential	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
Partition coefficient n-octanol/water (Log Pow)	0.3
Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Partition coefficient n-octanol/water (Log Pow)	0.18
Bornan-2-one (76-22-2)	
Partition coefficient n-octanol/water (Log Pow)	2.38 Source: HSDB
Diphenyl ether (101-84-8)	
Partition coefficient n-octanol/water (Log Pow)	4.21 Source: ECHA
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)	
Partition coefficient n-octanol/water (Log Pow)	3.1
Sodium hydroxide; caustic soda (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88

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12.4. Mobility in soil

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Mobility in soil	388.3 – 1416 Source: ECHA
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Isotridecanol, ethoxylated (69011-36-5)

Mobility in soil	111.3 Source: EPISUITE v4.1
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12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose of in accordance with relevant local regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Empty containers retain product residue and can be hazardous. Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Ecology - waste materials	: Recycling is preferred to disposal or incineration.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances 20 01 39 - plastics
HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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)

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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)

Detergent Regulation (648/2004)

Labelling of contents	
Component	%
anionic surfactants	≥5-<15%
non-ionic surfactants, phosphonates	<5%
2-BROMO-2-NITROPROPANE-1,3-DIOL	
perfumes	

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

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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 disrupting properties

Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Other information	: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
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. Sol. 2	Flammable solids, Category 2
H228	Flammable solid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

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Full text of H- and EUH-statements:	
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
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
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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.