



HG Limescale remover for coloured sanitary ware

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 23/05/2022 Revision date: 03/12/2024 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : HG Limescale remover for coloured sanitary ware

UFI : FTA7-E7E4-J101-A628
Product code : 428 ART
Type of product : Detergent
Product group : Trade product

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

Relevant identified uses

Intended for general public
Main use category : Consumer use
Function or use category : Descaling products

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/Area | Organisation/Company | Address | Emergency number | Comment |
|--------------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |

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

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage.

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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

: L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid; Alcohols, C9-11, ethoxylated

Hazard statements (CLP)

: H315 - Causes skin irritation.

H318 - Causes serious eye damage.

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.

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

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

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 and/or 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

3.2. Mixtures

| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|----------------------|---|
| L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid | CAS-No.: 79-33-4 EC-No.: 201-196-2 EC Index-No.: 607-743-00-5 REACH-no: 01-2119474164-39 | $\geq 2 - < 5$ | Skin Corr. 1C, H314 Eye Dam. 1, H318 |
| Alcohols, C9-11, ethoxylated | CAS-No.: 68439-46-3 | $\geq 2 - < 5$ | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |
| D-Glucopyranose, oligomers, decyl octyl glycosides (non-ionic surfactants) | CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530-36 | $\geq 0.1 - < 1$ | Eye Dam. 1, H318 |
| Diphenyl ether substance with a Community workplace exposure limit | CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545-33 | $\geq 0.001 - < 0.1$ | Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| benzaldehyde substance with a Community workplace exposure limit | CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-44 | < 0.001 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335 |

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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. Call a physician immediately. Call a doctor. |
| 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. |

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 chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | : Do not use a solid water stream as it may scatter and spread fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Precautionary measures fire | : Evacuate area. |
| Firefighting instructions | : Control run-off water by containing and keeping it out of sewers and watercourses. |
| 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 | : Clean up any spills as soon as possible, using an absorbent material to collect it. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Do not handle until all safety precautions have been read and understood. |
|------------------|---|

For non-emergency personnel

| | |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage. Evacuate unnecessary personnel. Do not touch or walk on the spilled product. |
|----------------------|--|

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 | : Stop leak if safe to do so. |

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

- For containment : Dilute small spillage well and wash away with large quantities of water. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
- 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

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, cool, well-ventilated area. Store locked up. Keep container tightly closed.
- Incompatible materials : Keep away from (strong) bases.
- Storage temperature : 0 – 40 °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

National occupational exposure and biological limit values

| Diphenyl ether (101-84-8) | |
|--|------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Diphenyl ether |
| IOEL TWA | 7 mg/m ³ |
| | 1 ppm |
| IOEL STEL | 14 mg/m ³ |
| | 2 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| Ireland - Occupational Exposure Limits | |
| Local name | Diphenyl ether (vapour) |
| OEL TWA | 7 mg/m ³ |
| | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| | 2 ppm |

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| Diphenyl ether (101-84-8) | |
|--|---|
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| benzaldehyde (100-52-7) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL STEL | 17.4 mg/m³ |

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

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

Personal protection equipment

Personal protective equipment:

Protective shoes. Safety glasses. Protective clothing. Gloves.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

| Eye protection | | | |
|----------------------------------|--------------------------------|-----------------|----------|
| Type | Field of application | Characteristics | Standard |
| Safety glasses with side shields | Normal use conditions, Droplet | | EN 166 |

Skin protection

Skin and body protection:

Wear suitable protective clothing

| Skin and body protection | |
|------------------------------------|--------------|
| Type | Standard |
| Long sleeved protective clothing | |
| Chemical resistant safety shoes | EN ISO 20345 |
| Use chemically protective clothing | EN 14605 |

Hand protection:

Wear protective gloves

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

Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

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Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. 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 | : Colourless. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 200 °C ASTM D3828 c |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : 2.5 – 3.5 |
| Viscosity, kinematic | : Not available |
| Solubility | : Soluble in water. |
| 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 | : 1.015 – 1.02 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

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.

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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)

| L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4) | |
|---|---|
| LD50 dermal rat | > |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 7.94 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

| D-Glucopyranose, oligomers, decyl octyl glycosides (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) |
| LD50 dermal | > 2000 mg/kg bodyweight |

| Diphenyl ether (101-84-8) | |
|---------------------------|-------------------------|
| LD50 oral rat | 2830 mg/kg Source: ECHA |

| benzaldehyde (100-52-7) | |
|-----------------------------------|---|
| LD50 oral rat | ≈ 1430 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1,33 - 1,54 |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit |
| LC50 Inhalation - Rat | 1 – 5 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method) |
| LC50 Inhalation - Rat (Dust/Mist) | > 1000 mg/l |

Skin corrosion/irritation : Causes skin irritation.
pH: 2.5 – 3.5
Serious eye damage/irritation : Causes serious eye damage.
pH: 2.5 – 3.5
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)

| benzaldehyde (100-52-7) | |
|-------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

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

| Diphenyl ether (101-84-8) | |
|-------------------------------------|-----------------------------------|
| NOAEL (dermal, rat/rabbit, 90 days) | 1000 mg/kg bodyweight Animal: rat |

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

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11.2. Information on other hazards

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 %

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

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

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)

| | |
|----------------------|---|
| LC50 - Fish [1] | 195 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 130 mg/l Test organisms (species): Daphnia magna |
| NOEC chronic algae | 1900 mg/l |

D-Glucopyranose, oligomers, decyl octyl glycosides (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 - Crustacea [2] | 31.62 mg/l (OECD 202 method) |
| 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) |
| NOEC chronic fish | 1.8 mg/l Brachydanio rerio (zebra-fish) |
| NOEC chronic crustacea | 2 mg/l Daphnia magna (Water flea) |

Diphenyl ether (101-84-8)

| | |
|----------------------|---|
| LC50 - Fish [1] | 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 1.96 mg/l Test organisms (species): Daphnia magna |
| ErC50 algae | 0.455 mg/l Source: ECHA |

benzaldehyde (100-52-7)

| | |
|------------------------------------|---|
| LC50 - Fish [1] | 1.07 mg/l |
| EC50 - Crustacea [1] | 19.7 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | 23.7 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | > 100 mg/l |
| EC50 72h - Algae [1] | 33.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

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benzaldehyde (100-52-7)

| | |
|----------------------|---|
| EC50 72h - Algae [2] | 8.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
|----------------------|---|

12.2. Persistence and degradability

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| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

| | |
|----------------|--------------------------|
| Biodegradation | 100 % (OECD 301E method) |
|----------------|--------------------------|

Diphenyl ether (101-84-8)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

Alcohols, C9-11, ethoxylated (68439-46-3)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

benzaldehyde (100-52-7)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------------------|
| Bioaccumulative potential | No bioaccumulation expected. |
|---------------------------|------------------------------|

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)

| | |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | -0.62 |
|---|-------|

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)

| | |
|-------------------------------------|-------|
| Bioconcentration factor (BCF REACH) | < 100 |
|-------------------------------------|-------|

| | |
|---|------------------|
| Partition coefficient n-octanol/water (Log Kow) | ≤ -0.07 at 20 °C |
|---|------------------|

Diphenyl ether (101-84-8)

| | |
|---|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.21 Source: ECHA |
|---|-------------------|

benzaldehyde (100-52-7)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.48 |
|---|------|

12.4. Mobility in soil

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)

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

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

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12.6. Endocrine disrupting properties

Adverse effects on the environment 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 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

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

Product/Packaging disposal recommendations

: Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers retain product residue and can be hazardous. Disposal must be done according to official regulations. Do not burn empty packaging. Do not cut using a blowtorch. Do not pierce or burn, even after use.

Ecological waste information

: Avoid release to the environment. Recycling is preferred to disposal or incineration.

European List of Waste (LoW, EC 2000/532)

: 20 01 29* - detergents containing dangerous substances
20 01 39 - plastics
15 01 02 - plastic packaging

HP Code

: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not regulated for transport | | | | |
| 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

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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

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)

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

Detergent Regulation (648/2004)

Allergenic fragrances > 0.01 %:

TERPINEOL

CAMPHOR

LIMONENE

| Labelling of contents | |
|--|-----|
| Component | % |
| anionic surfactants, non-ionic surfactants | <5% |
| perfumes | |
| TERPINEOL | |
| CAMPHOR | |
| LIMONENE | |

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)

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

UFI : Unique Formula Identifier.

| Indication of changes | | |
|-----------------------|--|----------|
| Section | Changed item | Comments |
| | Adverse health effects caused by endocrine disrupting properties | Added |
| | Revision date | Modified |
| | Indication of changes | Removed |
| 3 | Composition/information on ingredients | Modified |
| 5.3 | Firefighting instructions | Added |
| 6.1 | General measures | Modified |
| 6.1 | Emergency procedures | Modified |
| 6.3 | For containment | Added |
| 6.4 | Reference to other sections (8, 13) | Modified |
| 7.2 | Storage conditions | Modified |
| 7.2 | Special rules on packaging | Added |
| 7.2 | Heat and ignition sources | Added |
| 8.2 | Skin and body protection | Modified |
| 9 | Solubility | Added |
| 12.3 | Bioaccumulative potential | Added |
| 12.6 | Adverse effects on the environment caused by endocrine disrupting properties | Added |
| 13.1 | Ecology - waste materials | Added |
| 13.1 | European List of Waste (LoW, EC 2000/532) | Added |
| 13.1 | Product/Packaging disposal recommendations | Added |
| 16 | Other information | Added |
| 16 | Training advice | Added |

| 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) |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| 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 |

Training advice

: 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

: Normal use of this product shall imply use in accordance with the instructions on the packaging. **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 (Inhalation) | Acute toxicity (inhal.), Category 4 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH071 | Corrosive to the respiratory tract. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| 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. |
| H400 | Very toxic to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| 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.