



HG vinyl cleaner shine restorer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 20/03/2023 Revision date: 02/08/2024 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 vinyl cleaner shine restorer
UFI : 40TH-PACM-V00N-MHA4
Product code : 118 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 : Floor cleaning 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]

Serious eye damage/eye irritation, Category 2 H319
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning
Hazard statements (CLP) : H319 - Causes serious eye irritation.
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 : EUH208 - Contains 2-methylisothiazol-3(2H)-one (2682-20-4) (00180). May produce an allergic reaction.
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] |
|---|--|-----------------------|--|
| Isotridecanol, ethoxylated | CAS-No.: 69011-36-5 EC-No.: 500-241-6 | $\geq 2 - < 5$ | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |
| sodium carbonate | CAS-No.: 497-19-8 EC-No.: 207-838-8 EC Index-No.: 011-005-00-2 REACH-no: 01-2119485498-19 | $\geq 2 - < 5$ | Eye Irrit. 2, H319 |
| (2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit | CAS-No.: 34590-94-8 EC-No.: 252-104-2 REACH-no: 01-2119450011-60 | $\geq 2 - < 5$ | Not classified |
| Diphenyl ether substance with a Community workplace exposure limit | CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545-33 | $\geq 0.001 - < 0.01$ | Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |

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| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|------------------|---|
| 2-methylisothiazol-3(2H)-one | CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50 | ≥ 0.001 – < 0.01 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| 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 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (Conc. (% w/w)) |
|------------------------------|---|--|
| Isotridecanol, ethoxylated | CAS-No.: 69011-36-5 EC-No.: 500-241-6 | (1 ≤ C < 10) Eye Irrit. 2; H319 (10 ≤ C < 100) Eye Dam. 1; H318 |
| 2-methylisothiazol-3(2H)-one | CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 |

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. If eye irritation persists: Get medical advice/attention. |
| 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 eye contact | : Eye irritation. |
|------------------------------------|-------------------|

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

| | |
|------------------|--|
| Explosion hazard | : Intense heat may cause container to burst. |
|------------------|--|

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Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Metallic oxides.

5.3. Advice for firefighters

Precautionary measures fire : Runoff from fire control or dilution water may cause pollution.
Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. 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 : Do not handle until all safety precautions have been read and understood. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
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.

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 : Stop leak if safe to do so. Move containers from spill area. Dilute spills with water and mop up. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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 : 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 : Store in dry, cool, well-ventilated area. Protect from sunlight. Keep container tightly closed.
Storage temperature : > 0 – < 30 °C
Heat and ignition sources : Keep away from heat and direct sunlight.
Storage area : keep in frostfree area.

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| | |
|----------------------------|--|
| Special rules on packaging | : Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage. |
| 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

National occupational exposure and biological limit values

| (2-methoxymethylethoxy)propanol (34590-94-8) | |
|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | (2-Methoxymethylethoxy)-propanol |
| IOEL TWA | 308 mg/m ³ |
| | 50 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | (2-Methoxymethylethoxy)-1-propanol [Dipropylene glycol methyl ether] |
| OEL TWA | 308 mg/m ³ |
| | 50 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| 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 |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |

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benzaldehyde (100-52-7)

EU - Indicative Occupational Exposure Limit (IOEL)

| | |
|-----------|------------------------|
| IOEL STEL | 17.4 mg/m ³ |
|-----------|------------------------|

8.2. Exposure controls

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.

Personal protection equipment

Personal protective equipment:

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

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 | | EN 166 |

Skin protection

Skin and body protection:

If there is a risk of liquid being splashed : Wear suitable protective clothing

Skin and body protection

| Type | Standard |
|----------------------------------|--------------|
| Long sleeved protective clothing | |
| Chemical resistant safety shoes | EN ISO 20345 |

Hand protection:

Protective gloves

Hand protection

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

Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Colour | : White, light yellow. |
| Appearance | : Liquid. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : < 5 °C |
| Boiling point | : 100 °C |
| Flammability | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 60 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : 9.8 |
| Viscosity, kinematic | : Not available |
| Solubility | : Soluble in the following materials: cold water and hot water. Dispersible (partial solubilisation) in: Methanol. Acetone. Insoluble in: Diethyl ether, n-octanol. |
| 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 | : 1.03 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

Other safety characteristics

Relative evaporation rate (butylacetate=1) : 0.02

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)

| sodium carbonate (497-19-8) | |
|-----------------------------------|---|
| LD50 oral rat | 2800 mg/kg bodyweight Animal: rat |
| LD50 oral | 4090 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other: |
| LC50 Inhalation - Rat (Dust/Mist) | 2300 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: |

| (2-methoxymethylethoxy)propanol (34590-94-8) | |
|--|---|
| LD50 oral rat | > 5000 mg/kg bodyweight 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) |

| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
|--|----------------|
| LD50 oral rat | 66 – 105 mg/kg |
| LD50 dermal rabbit | 242 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 0.33 mg/l |

| 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 : Not classified (Conclusive but not sufficient for classification)
pH: 9.8

| sodium carbonate (497-19-8) | |
|-----------------------------|-------------------------------------|
| pH | ≈ 11.6 Concentration: (≈)0,1 other: |

| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
|--|---|
| pH | 2.58 Temp.: 25 °C Concentration: 50 g/L |

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Serious eye damage/irritation : Causes serious eye irritation.
pH: 9.8

sodium carbonate (497-19-8)

| | |
|----|-------------------------------------|
| pH | ≈ 11.6 Concentration: (≈)0,1 other: |
|----|-------------------------------------|

2-methylisothiazol-3(2H)-one (2682-20-4)

| | |
|----|---|
| pH | 2.58 Temp.: 25 °C Concentration: 50 g/L |
|----|---|

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)

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) |
|----------------------------|---|

(2-methoxymethylethoxy)propanol (34590-94-8)

| | |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: other: |
|----------------------------|--|

2-methylisothiazol-3(2H)-one (2682-20-4)

| | |
|----------------------------|---|
| LOAEL (oral, rat, 90 days) | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other: |
|----------------------------|---|

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)

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)

sodium carbonate (497-19-8)

| | |
|----------------------|---|
| LC50 - Fish [1] | 300 mg/l Test organisms (species): Lepomis macrochirus |
| EC50 - Crustacea [1] | 200 – 227 mg/l Test organisms (species): Ceriodaphnia sp. |
| EC50 96h - Algae [1] | 242 mg/l Source: ECOTOX |

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| 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 |
| (2-methoxymethylethoxy)propanol (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: |
| 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' |
| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
| LC50 - Fish [1] | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 1.6 mg/l Test organisms (species): Daphnia magna |
| 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) |
| EC50 72h - Algae [2] | 8.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

12.2. Persistence and degradability

| HG vinyl cleaner shine restorer | |
|--|---|
| 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. |
| sodium carbonate (497-19-8) | |
| Persistence and degradability | Rapidly degradable |

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| Isotridecanol, ethoxylated (69011-36-5) | |
|--|--------------------|
| Persistence and degradability | Rapidly degradable |
| (2-methoxymethylethoxy)propanol (34590-94-8) | |
| Persistence and degradability | Rapidly degradable |
| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
| Persistence and degradability | Rapidly degradable |
| Diphenyl ether (101-84-8) | |
| Persistence and degradability | Rapidly degradable |
| benzaldehyde (100-52-7) | |
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| HG vinyl cleaner shine restorer | |
|---|------------------------------|
| Bioaccumulative potential | No bioaccumulation expected. |
| sodium carbonate (497-19-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -6.19 |
| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.49 |
| 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

| HG vinyl cleaner shine restorer | |
|---|---------------------------------------|
| Ecology - soil | Expected to be highly mobile in soil. |
| Isotridecanol, ethoxylated (69011-36-5) | |
| Mobility in soil | 111.3 Source: EPISUITE v4.1 |

12.5. Results of PBT and vPvB assessment

| HG vinyl cleaner shine restorer | |
|--|--|
| 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

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 %.

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional waste regulation | : Dispose of in accordance with relevant local regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : 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. Disposal must be done according to official regulations. Do not pierce or burn, even after use. |
| Additional information | : Do not re-use empty containers. |
| Ecological waste information | : 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 |
| 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

Inland waterway transport

Not regulated

Rail transport

Not regulated

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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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Detergent Regulation (648/2004)

Allergenic fragrances > 0.01 %:

TERPINEOL

| Labelling of contents | |
|--|---------|
| Component | % |
| soap | ≥5-<15% |
| anionic surfactants, non-ionic surfactants | <5% |
| METHYLISOTHIAZOLINONE | |
| BENZISOTHIAZOLINONE | |
| perfumes | |
| TERPINEOL | |

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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes:

UFI : Unique Formula Identifier.

| Indication of changes | | |
|-----------------------|--|-----------------|
| Section | Changed item | Comments |
| | Revision date | Added |
| 2.2 | Precautionary statements (CLP) | Modified |
| 3 | Composition/information on ingredients | Modified |
| 4.1 | First-aid measures for first aider | Added |
| 4.1 | First-aid measures general | Added |
| 5.1 | Unsuitable extinguishing media | Added |
| 5.2 | Explosion hazard | Added |
| 5.2 | Fire hazard | Removed |
| 5.3 | Precautionary measures fire | Added |
| 5.3 | Firefighting instructions | Added |
| 6.1 | Emergency procedures | Added |
| 6.1 | Protective equipment | Added |
| 6.1 | General measures | Added |
| 6.3 | For containment | Added |
| 7.1 | Additional hazards when processed | Added |
| 7.2 | Technical measures | Added |
| 7.2 | Packaging materials | Added |
| 7.2 | Storage conditions | Modified |
| 8.2 | Eye protection | Modified |
| 9 | Flammability | Removed |
| 13.1 | Sewage disposal recommendations | Added |
| 13.1 | Additional information | Added |
| 13.1 | Product/Packaging disposal recommendations | 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) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |

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

: 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. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| 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 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH208 | Contains 2-methylisothiazol-3(2H)-one (2682-20-4) (00180). May produce an allergic reaction. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| 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.