

# SAFETY DATA SHEET

HG drain odour remover

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

### 1.1 Product identifier

**Product name** : HG drain odour remover  
**Product code** : 624 ART  
**Product description** : Cleaner.  
**Product type** : Solid.  
**Other means of identification** : Not available.

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

Drain odour remover

### 1.3 Details of the supplier of the safety data sheet

HG International BV  
Damsluisweg 70 - NL-1332 EJ - Almere - The Netherlands  
Tel.: +31 (0)36 54 94 700 - Fax: +31 (0)36 54 94 744  
Email: info@hg.eu - Internet: www.hg.eu

**e-mail address of person responsible for this SDS** : safety@hg.eu

#### National contact

##### **United Kingdom**

HG Hagesan UK Ltd.  
Unit 2, Lanswood Park  
Broomfield Road, Elmstead Market  
CO7 7FD UK-COLCHESTER Essex  
Tel 0044 (0)1206 822744 - Fax 0044 (0)1206 827019

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : **England** and **Wales**  
NHS Direct: 0845 4647

**Scotland**  
NHS 24: 08454 24 24 24

**Republic of Ireland**  
01 809 2166

#### Supplier

**Telephone number** : +31 (0)36 54 94 777  
**Hours of operation** : Mo-Fr 9.00-17.00  
**Information limitations** : Only for medical personnel.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Ox. Sol. 3, H272

Acute Tox. 4, H302

Skin Corr. 1, H314

Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : May intensify fire; oxidiser.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.

#### Precautionary statements

**General** : Keep out of reach of children. If medical advice is needed: Have product container or label at hand.

**Prevention** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves and eye protection.

**Response** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable

**Disposal** : Not applicable

**Hazardous ingredients** : disodium carbonate, compound with hydrogen peroxide (2:3)  
sodium hydroxide

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Yes, applicable.

**Tactile warning of danger** : Yes, applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : None known.

HG drain odour remover

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name   | Identifiers   | %         | Regulation (EC) No. 1272/2008 [CLP]  | Type    |
|---|---|-----------|--|---------|
| disodium carbonate, compound with hydrogen peroxide (2:3)                             | EC: 239-707-6<br>CAS: 15630-89-4                                | ≥75 - <90 | Ox. Sol. 3, H272<br>Acute Tox. 4, H302<br>Eye Dam. 1, H318   | [1]     |
| sodium hydroxide  | REACH #:<br>01-2119457892-27<br>EC: 215-185-5<br>CAS: 1310-73-2 | ≥15 - <20 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318  | [1] [2] |
| sodium carbonate  | EC: 207-838-8<br>CAS: 497-19-8                                  | ≥5 - <10  | Eye Irrit. 2, H319   | [1]     |
| p-mentha-1,4(8)-diene   | EC: 209-578-0<br>CAS: 586-62-9                                  | <0,25     | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)  | [1]     |
| [3R-(3α,3aβ,7β,8α)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene | EC: 207-418-4<br>CAS: 469-61-4                                  | <1        | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)<br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]     |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

HG drain odour remover

## SECTION 4: First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Not applicable
- Unsuitable extinguishing media** : Not applicable

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Oxidising material. May intensify fire. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

HG drain odour remover

## SECTION 5: Firefighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material for containment and cleaning up

- Small spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

HG drain odour remover

## SECTION 7: Handling and storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Seveso Directive - Reporting thresholds (in tonnes)

#### Danger criteria

| Category                         | Notification and MAPP threshold | Safety report threshold |
|----------------------------------|---------------------------------|-------------------------|
| P8: Oxidizing liquids and solids | 50                              | 200                     |

### 7.3 Specific end use(s)

**Recommendations** :

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| sodium hydroxide        | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b><br>STEL: 2 mg/m <sup>3</sup> 15 minutes. |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



## SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: chemical splash goggles.
- Skin protection**
- Hand protection** : Use protective gloves. Staff training in the correct use and maintenance of personal protective equipment must be guaranteed.
- Protection for long-term use or submersion
- For long-term use or submersion, use nitrile rubber gloves of a thickness of at least 0.38mm (thickness depends on type of glove and quality), for a penetration time of at least 480 minutes, tested according to the standard EN 374:2003.
- Protection for short-term use ( $\leq 30$  min) or splash protection
- For short-term use ( $\leq 30$  min) or splash protection, use nitrile rubber gloves of a thickness of at least 0.38mm (thickness depends on type of glove and quality), for a penetration time of at least 30 minutes, tested according to the standard EN 374: 2003.
- IMPORTANT: in order to guarantee the safe use of gloves, the following has to be considered when choosing suitable protective gloves:
- The simultaneous use of other chemical products;
  - Necessary protection against physical risks like cutting, perforation or thermal hazards; and
  - The manufacturer's instructions and/or specifications for the gloves.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Solid.
- Colour** : White to yellowish.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.

HG drain odour remover

## SECTION 9: Physical and chemical properties

|  |                  |
|--|------------------|
| Upper/lower flammability or explosive limits | : Not available. |
| Vapour pressure                              | : Not available. |
| Vapour density                               | : Not available. |
| Relative density                             | : 1,02           |
| Solubility(ies)                              | : Not available. |
| Partition coefficient: n-octanol/ water      | : Not available. |
| Auto-ignition temperature                    | : Not available. |
| Decomposition temperature                    | : Not available. |
| Viscosity                                    | : Not available. |
| Explosive properties                         | : Not available. |
| Oxidising properties                         | : Not available. |

### 9.2 Other information

Solubility in water : Not available.

No additional information.

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| 10.2 Chemical stability                 | : The product is stable.  |
| 10.3 Possibility of hazardous reactions | : Hazardous reactions or instability may occur under certain conditions of storage or use.<br>Conditions may include the following:<br>contact with combustible materials<br>Reactions may include the following:<br>risk of causing or intensifying fire |
| 10.4 Conditions to avoid                | : Not applicable  |
| 10.5 Incompatible materials             | : Reactive or incompatible with the following materials:<br>combustible materials<br>reducing materials   |
| 10.6 Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                   | Result    | Species | Dose       | Exposure |
|---|-----------|---------|------------|----------|
| disodium carbonate, compound with hydrogen peroxide (2:3) | LD50 Oral | Rat     | 2400 mg/kg | -        |
| sodium carbonate  | LD50 Oral | Rat     | 4090 mg/kg | -        |
| p-mentha-1,4(8)-diene                                     | LD50 Oral | Rat     | 4390 mg/kg | -        |

Conclusion/Summary : Not available.

#### Acute toxicity estimates

Not available.



HG drain odour remover

## SECTION 11: Toxicological information

### Irritation/Corrosion

| Product/ingredient name  | Result                   | Species | Score | Exposure                   | Observation |
|--|--------------------------|---------|-------|----------------------------|-------------|
| sodium hydroxide   | Eyes - Severe irritant   | Monkey  | -     | 24 hours 1 Percent         | -           |
|  | Eyes - Mild irritant     | Rabbit  | -     | 400 Micrograms             | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 50 Micrograms     | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 1 Percent                  | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 1 milligrams      | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 0,5 minutes 1 milligrams   | -           |
|  | Skin - Mild irritant     | Human   | -     | 24 hours 2 Percent         | -           |
| sodium carbonate   | Skin - Severe irritant   | Rabbit  | -     | 24 hours 500 milligrams    | -           |
|  | Eyes - Mild irritant     | Rabbit  | -     | 0,5 minutes 100 milligrams | -           |
|  | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams    | -           |
| p-mentha-1,4(8)-diene  | Eyes - Severe irritant   | Rabbit  | -     | 50 milligrams              | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams    | -           |
| [3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene | Skin - Moderate irritant | Rabbit  | -     | 24 hours 10 Percent        | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams    | -           |

**Conclusion/Summary** : Not available.

### Sensitisation

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

HG drain odour remover

## SECTION 11: Toxicological information

- Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes severe burns.  
**Ingestion** : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name                                   | Result                             | Species                                    | Exposure |
|---|------------------------------------|--|----------|
| disodium carbonate, compound with hydrogen peroxide (2:3) | Acute IC50 68000 µg/l Fresh water  | Algae - Pseudokirchneriella subcapitata    | 96 hours |
| sodium hydroxide  | Acute EC50 40,38 mg/l Fresh water  | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| sodium carbonate  | Acute LC50 125 ppm Fresh water     | Fish - Gambusia affinis - Adult            | 96 hours |
|   | Acute EC50 242000 µg/l Fresh water | Algae - Navicula seminulum                 | 96 hours |
|   | Acute LC50 176000 µg/l Fresh water | Crustaceans - Amphipoda                    | 48 hours |
|   | Acute LC50 265000 µg/l Fresh water | Daphnia - Daphnia magna                    | 48 hours |
|   | Acute LC50 300000 µg/l Fresh water | Fish - Lepomis macrochirus                 | 96 hours |
| p-mentha-1,4(8)-diene                                     | Acute EC50 1380 µg/l Fresh water   | Daphnia - Daphnia magna                    | 48 hours |
|   | Acute EC50 763 µg/l Fresh water    | Fish - Pimephales promelas -               | 96 hours |

HG drain odour remover

## SECTION 12: Ecological information

|  |  |  |          |
|--|--|--|----------|
| [3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene | Chronic NOEC 30 to 950 $\mu\text{g/l}$ Fresh water | Juvenile (Fledgling, Hatchling, Weanling)<br>Algae - Pseudokirchneriella subcapitata | 96 hours |
|  | Acute EC50 44 $\mu\text{g/l}$ Fresh water          | Daphnia - Daphnia pulex - Neonate  | 48 hours |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| p-mentha-1,4(8)-diene   | 4,47               | -   | high      |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.





#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

HG drain odour remover

## SECTION 14: Transport information

|  | ADR/RID  | ADN  | IMDG  | IATA   |
|--|--|--|---|--|
| <b>14.1 UN number</b>                  | UN 1759  | UN 1759  | UN 1759   | UN 1759  |
| <b>14.2 UN proper shipping name</b>    | CORROSIVE SOLIDS, N.O.S. (sodium hydroxide)  | CORROSIVE SOLIDS, N.O.S. (sodium hydroxide)  | CORROSIVE SOLIDS, N.O.S. (sodium hydroxide)   | CORROSIVE SOLIDS, N.O.S. (sodium hydroxide)  |
| <b>14.3 Transport hazard class(es)</b> | 8<br> | 8<br> | 8<br> | 8<br> |
| <b>14.4 Packing group</b>              | II   | II   | II  | II   |
| <b>14.5 Environmental hazards</b>      | No.  | No.  | No.   | No.  |
| <b>Additional information</b>          | -  | -  | -   | -  |

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not applicable.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

##### Other EU regulations

**Europe inventory** : All components are listed or exempted.

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

HG drain odour remover

## SECTION 15: Regulatory information

### Category

Contains (Regulation (EC) No 648/2004)

oxygen-based bleaching agents

>30%

perfumes: limonene

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

|                          |  |
|--------------------------|--|
| <b>Australia</b>         | : All components are listed or exempted.   |
| <b>Canada</b>            | : All components are listed or exempted.   |
| <b>China</b>             | : All components are listed or exempted.   |
| <b>Turkey</b>            | : Not determined.  |
| <b>United States</b>     | : All components are listed or exempted.   |
| <b>Taiwan</b>            | : Not determined.  |
| <b>Philippines</b>       | : All components are listed or exempted.   |
| <b>New Zealand</b>       | : All components are listed or exempted.   |
| <b>Malaysia</b>          | : Not determined.  |
| <b>Republic of Korea</b> | : All components are listed or exempted.   |
| <b>Japan</b>             | : <b>Japan inventory (ENCS)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined. |

#### **15.2 Chemical safety assessment**

: This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

### **Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

HG drain odour remover

## SECTION 16: Other information

| Classification   | Justification  |
|--|--|
| Ox. Sol. 3, H272<br>Acute Tox. 4, H302<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318 | Expert judgment<br>Expert judgment<br>Expert judgment<br>Expert judgment |

### Full text of abbreviated H statements

|      |   |
|------|---|
| H272 | May intensify fire; oxidiser.                         |
| H290 | May be corrosive to metals.                           |
| 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.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

### Full text of classifications [CLP/GHS]

|  |  |
|--|--|
| Acute Tox. 4, H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Eye Dam. 1, H318<br>Eye Irrit. 2, H319<br>Met. Corr. 1, H290<br>Ox. Sol. 3, H272<br>Skin Corr. 1, H314<br>Skin Corr. 1A, H314<br>Skin Irrit. 2, H315 | ACUTE TOXICITY (oral) - Category 4<br>ACUTE AQUATIC HAZARD - Category 1<br>LONG-TERM AQUATIC HAZARD - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>CORROSIVE TO METALS - Category 1<br>OXIDISING SOLIDS - Category 3<br>SKIN CORROSION/IRRITATION - Category 1<br>SKIN CORROSION/IRRITATION - Category 1A<br>SKIN CORROSION/IRRITATION - Category 2 |
|--|--|

**Date of printing** : 29-5-2017  
**Date of issue/ Date of revision** : 23-5-2017  
**Date of previous issue** : No previous validation  
**Version** : 1

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.