



Material Safety Data Sheet



Kitchen enzyme drain unblocker

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 4810756
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.01
Country : Netherlands **Validation date** : 4-1-2008.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 4-1-2008.
Fax : +31 (0)36 54 94 744 **Responsible name** : P. Stienstra
Internet: : www.hginternational.com **Telephone No.:** : +1.705.726.5445
Supplier : Solstrand Trading **Fax** : +1.705.734.0857
Address : 60 Lockhart road Barrie, Ontario L4N 9G8 **Country** : Canada
Material uses : Has been specially developed to clear blockages caused by very stubborn grease and food remains.

 **In Case of Emergency** : Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924

Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Exposure limits
Water	7732-18-5	75 - 100	Not available.
Bacterial culture poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c12-14-alkyl ethers, sodium salts	68891-38-3	5 - 15 0 - 1	Not available. Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : No specific hazard.

Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

- Eyes** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Potential chronic health effects : **CARCINOGENIC EFFECTS**: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by overexposure: : Repeated or prolonged exposure is not known to aggravate medical condition.

Over-exposure signs/symptoms : Not available.

[See toxicological Information \(section 11\)](#)

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Section 4. First aid measures

- Eye Contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to Physician** : Not available.

Section 5. Fire fighting measures

- Flammability of the product** : Non-flammable.
- Auto-ignition Temperature** : Not applicable.
- Flash Points** : Not applicable.
- Flammable limits** : Not applicable.
- Products of combustion** : carbon oxides (CO, CO₂)
- Fire hazards in presence of various substances** : Not applicable.
- Explosion hazards in presence of various substances** : Not available.
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.
No specific hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.
- Special remarks on fire hazards** : No additional remark.
- Special remarks on explosion hazards** : Not available.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Wash thoroughly after handling. Do not ingest. If swallowed, seek medical advice immediately and show this container or label. Keep out of the reach of children.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
- Personal protection**
- Eyes** : splash goggles
 - Skin** : No special protective clothing is required.
 - Respiratory** : Not applicable
 - Hands** : Gloves.

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Other protection : Not available.

Personal protective equipment (Pictograms) :



Personal protection in case of a large spill : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

[Consult local authorities for acceptable exposure limits.](#)

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : Green.

Odor : Characteristic.

pH : 6.5 (Conc. (% w/w): 100) [Acidic.]

Relative density : 1 g/cm³ (20°C / 68°F)

Viscosity : Not available.

Solubility : Easily soluble in the following materials: hot water.
Soluble in the following materials: cold water.

Flash point : Not applicable.

Explosive properties : Not available.

Oxidizing properties : Not applicable

Physical chemical comments : Not available.

Section 10. Stability and reactivity

Stability and Reactivity : The product is stable.

Conditions of instability : Stable under recommended storage and handling conditions (see section 7).

Incompatibility with various substances : Not available.

Hazardous Decomposition Products : carbon oxides (CO, CO₂)

Hazardous polymerization : Will not occur.

Section 11. Toxicological information

Chronic effects on humans : Not available.

Other toxic effects on humans : Non-irritant for skin. Non-irritating to the eyes. Non-irritant for lungs.

Special remarks on toxicity to animals : Not available.

Special remarks on chronic effects on humans : Not available.

Special remarks on other toxic effects on humans : Not available.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards.

Mutagenic effects : No known significant effects or critical hazards.

Reproduction toxicity : No known significant effects or critical hazards.

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Section 12. Ecological information

- BOD and COD** : Not available.
- Biodegradable/OECD** : Biodegradable
- Mobility** : Not available.
- Products of degradation** : carbon oxides (CO, CO₂) and water
- Toxicity of the products of biodegradation** : The product itself and its products of degradation are not toxic.
- Special remarks on the products of biodegradation** : No additional remark.

Section 13. Disposal considerations

- Waste information** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.
- Waste stream** : Not available.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		Remarks No additional remark.
TDG Classification	Not regulated.	-	-	-		Remarks Keep in frostfree area
ADR/RID Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IMDG Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IATA-DGR Class	Not regulated.	-	-	-		Remarks Keep in frostfree area

Section 15. Regulatory information

- WHMIS (Canada)** : Not controlled under WHMIS (Canada).
No products were found.

International regulations

- EINECS** : Not available.
- DSCL (EEC)** : This product is not classified according to the EU regulations.
- International lists** :

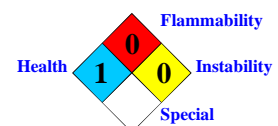
Section 16. Other information

- Label Requirements** : Not applicable.

Hazardous Material Information System (U.S.A.)

Health	1
Fire hazard	0
Reactivity	0
Personal protection	C

National Fire Protection Association (U.S.A.)



- References** : Not available.
- Other special considerations** : Not available.

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Notice to reader

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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.