



Material Safety Data Sheet



Liquid drain unblocker

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 139100
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 1.01
Country : Netherlands **Validation date** : 5/19/2010.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 5/19/2010.
Fax : +31 (0)36 54 94 744 **Responsible name** : P. Stienstra
Internet: : www.hg.eu **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 : Cleaner.
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
aqua	7732-18-5	30-100	Not available.
Sodium hydroxide	1310-73-2	15 - 30	Not available.
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c12-14-alkyl ethers, sodium salts	68891-38-3	1 - 5	Not available.
sodium 2-butoxyethyl sulphate	67656-24-0	1-5	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : DANGER
CORROSIVE.
CAUSES EYE AND SKIN BURNS.
Do not swallow.
Do not get in eyes, on skin or on clothing.

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

Potential acute health effects

- Eyes** : Severely corrosive to the eyes. Causes severe burns.
- Skin** : Severely corrosive to the skin. Causes severe burns.
- Inhalation** : Corrosive to the respiratory system.
- Ingestion** : May cause burns to mouth, throat and stomach.

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

Medical conditions aggravated by overexposure: : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

Over-exposure signs/symptoms : Causes eye and skin burns. May cause burns to mouth, throat, and stomach.

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

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Section 4. First aid measures

- Eye Contact** : Get medical attention immediately. 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.
- Skin Contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing 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.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. 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.
- Notes to Physician** : Not available.

Section 5. Fire fighting measures

- Flammability of the product** : Not applicable
- Auto-ignition Temperature** : Not applicable.
- Flash Points** : Not applicable.
- Flammable limits** : Not applicable.
- Products of combustion** : Decomposition products may include the following materials:
carbon oxides
sulfur oxides
metal oxide/oxides
- Fire hazards in presence of various substances** : Not available.
- Explosion hazards in presence of various substances** : Not applicable.
- Fire fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
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.
In a fire or if heated, a pressure increase will occur and the container may burst.
- 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.
- Special remarks on fire hazards** : No additional remark.
- Special remarks on explosion hazards** : Not applicable

Section 6. Accidental release measures

- Personal precautions** : 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled 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).

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Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling : Put on appropriate personal protective equipment (see section 8). 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. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. Separate from acids. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls, Personal Protection

Engineering controls : No special ventilation requirements. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Recommended: safety glasses with side shields

Skin : Recommended: Work uniform or laboratory coat.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : >8 hours (breakthrough time): Butyl rubber gloves.

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 adequate. Consult a specialist before handling this product.

Product Name

Sodium hydroxide

Exposure limits

ACGIH TLV (United States, 2003). Notes:
CEIL: 2 mg/m³

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

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : Colorless.

Odor : Odorless.

pH : 13 to 14 [Conc. (% w/w): 100%]

Relative density : 1.243 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 applicable.

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- Oxidizing properties** : Not available.
Physical chemical comments : Solubility in other solvents: not soluble

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 : Extremely reactive or incompatible with the following materials: acids.
Hazardous Decomposition Products : carbon oxides (CO, CO₂)
Hazardous polymerization : Will not occur.

Section 11. Toxicological information

- | | | | | |
|---|----------------|----------------|----------------|----------------|
| Sodium hydroxide | LDLo | 500 mg/kg | Oral | Rabbit |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c12-14-alkyl ethers, sodium salts | Not available. | Not available. | Not available. | Not available. |
| sodium 2-butoxyethyl sulphate | Not available. | Not available. | Not available. | Not available. |
- Chronic effects on humans** : Contains material which causes damage to the following organs: lungs, skin, eye, lens or cornea.
Other toxic effects on humans : Extremely hazardous by the following route of exposure: of skin contact (corrosive, irritant), of eye contact (irritant, corrosive), lung corrosive).
Special remarks on toxicity to animals : No additional remark.
Special remarks on chronic effects on humans : No additional remark.
Special remarks on other toxic effects on humans : No additional remark.
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.

Section 12. Ecological information

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|---|----------------|----------------|----------------|
| Sodium hydroxide | Not available. | Not available. | Not available. |
| sodium 2-butoxyethyl sulphate | Not available. | Not available. | Not available. |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c12-14-alkyl ethers, sodium salts | Not available. | Not available. | Not available. |
- BOD and COD** : Not available.
Biodegradable/OECD : Biodegradable
Mobility : Not available.
Products of degradation : Decomposition products may include the following materials: Some metallic oxides.
Toxicity of the products of biodegradation : The product itself and its products of degradation are not toxic.
Special remarks on the products of biodegradation : Not available.






Section 13. Disposal considerations

Waste information : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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	1760	CORROSIVE LIQUID N.O.S. (Sodium Hydroxide, 20%, mixture), class 8, UN 1760, PG II (Sodium hydroxide)	8	II		Limited quantity Yes.
TDG Classification	1760	CORROSIVE LIQUID N.O.S. (Sodium Hydroxide, 20%, mixture), class 8, UN 1760, PG II (Sodium hydroxide)	8	II		-
ADR/RID Class	1760	UN 1760, CORROSIVE LIQUID N.O.S. (Sodium Hydroxide, mixture), class 8, UN 1760, II, ADR mixture (Sodium hydroxide)	8	II		Hazard identification number 80 Reportable quantity 4 Limited quantity LQ22
IMDG Class	1760	CORROSIVE LIQUID N.O.S. (Sodium Hydroxide, 20%, mixture), class 8, UN 1760, PG II mixture	8	II		Emergency schedules (EmS) F-A, S-B Reportable quantity 30
IATA-DGR Class	1760	CORROSIVE LIQUID N.O.S. (Sodium Hydroxide, 20%, mixture), class 8, UN 1760, PG II mixture	8	III		-

Section 15. Regulatory information

WHMIS (Canada) : Class E: Corrosive material
CEPA Toxic substances: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

International regulations

EINECS :
DSCL (EEC) : R35- Causes severe burns.

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International lists : Australia inventory (AICS): Not determined.
 China inventory (IECSC): Not determined.
 Korea inventory (KECI): Not determined.
 Philippines inventory (PICCS): Not determined.
 Japan inventory (ENCS): Not determined.

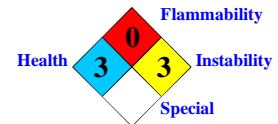
Section 16. Other information

Label Requirements : CORROSIVE.
 CAUSES EYE AND SKIN BURNS.

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

Health	*	3
Fire hazard		0
Reactivity		3
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

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.