



Material Safety Data Sheet



grease away

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 128050164
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 1.03
Country : Netherlands **Validation date** : 9/13/2010.
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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
1-Methoxy-2-propanol	107-98-2	5 - 15	Not available.
alcohols, c11-14-iso-, c13-rich, ethoxylated	78330-21-9	1 - 5	Not available.
glycine, n,n-bis(carboxymethyl)-, trisodium salt	5064-31-3	0 - 1	Not available.
triethanolamine	102-71-6	0-1	Not available.
Sodium hydroxide	1310-73-2	0-1	Not available.
Perfume ingredient.		0-1	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : CAUTION
IRRITANT.
May be irritating to eyes and skin.
Do not mix with [***].acids
Do not get in eyes, on skin or on clothing.
Do not breathe fumes.
Do not breathe spray.

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

Potential acute health effects

Eyes : Can cause irritation.
Skin : Can cause irritation.
Inhalation : Can cause irritation.
Ingestion : Ingestion is not likely while the product will not easily enter the human body

Potential chronic health effects : **CARCINOGENIC EFFECTS:** Classified 3 (Not classifiable for human.) by IARC [triethanolamine]. Classified 3 (Not classifiable for human.) by IARC [2,2'-Iminodiethanol]. Classified 2B (Possible for human.) by IARC [glycine, n,n-bis(carboxymethyl)-, trisodium salt].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by overexposure: : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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Over-exposure signs/symptoms : Repeated or prolonged exposure is not known to aggravate any medical condition.

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

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** : May be combustible at high temperature.
- Auto-ignition Temperature** : Lowest known value: >200°C (392°F) (alcohols, c11-14-iso-, c13-rich, ethoxylated).
- Flash Points** : Closed cup: Higher than 93.3°C (200°F).
- Flammable limits** : Not available.
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂).
- Fire hazards in presence of various substances** : Not available.
- Explosion hazards in presence of various substances** : Not available.
- 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** : Nonflammable, but will burn on prolonged exposure to flame or high temperature.
- Special remarks on explosion hazards** : Not available.

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).

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- 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).
- 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** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal protection

- Eyes** : Recommended: safety glasses with side shields
- Skin** : Recommended: Work uniform or laboratory coat.
- Respiratory** : Recommended: A respirator is not needed under normal and intended conditions of product use.
- 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. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

1-Methoxy-2-propanol
glycine, n,n-bis(carboxymethyl)-, trisodium salt
alcohols, c11-14-iso-, c13-rich, ethoxylated
Sodium hydroxide
triethanolamine
Perfume ingredient.

Exposure limits

Not available.
Not available.
Not available.
Not available.
Not available.
Not available.

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

Section 9. Physical and chemical properties

Physical State and Appearance	: Liquid.
Color	: Clear. Yellow. [Light]
Odor	: Lemon like.
pH	: 12.1 (Conc. (% w/w): 100) [Basic.]
Relative density	: 1.002 g/cm ³ (20°C / 68°F)
Viscosity	: Dynamic: Highest known value: 157 cP (alcohols, c11-14-iso-, c13-rich, ethoxylated) Weighted average: 28.15 cP
Solubility	: Easily soluble in the following materials: hot water. Soluble in the following materials: cold water. Insoluble in the following materials: methanol, diethyl ether, n-octanol, acetone.
Flash point	: Closed cup: Higher than 93.3°C (200°F).
Explosive properties	: Not available.
Oxidizing properties	: Not available.
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	: Reactive with acids.
Hazardous Decomposition Products	: carbon oxides (CO, CO ₂) nitrogen oxides (NO, NO ₂ ...)
Hazardous polymerization	: Will not occur.

Section 11. Toxicological information

1-Methoxy-2-propanol	LD50	5000 mg/kg	Oral	Rat
	LD50	11700 mg/kg	Oral	Mouse
	LD50	13500 mg/kg	Dermal	Rabbit
	LDLo	>6 mg/kg	Oral	Rat
	LC50	7000 (6 hour(s))	Inhalation	Rat
	LC50	10000 (5 hour(s))	Inhalation	Rat
	LD50	200 to 2000 mg/kg	Oral	Rat
alcohols, c11-14-iso-, c13-rich, ethoxylated glycine, n,n-bis(carboxymethyl)-, trisodium salt	LD50	1100 mg/kg	Oral	Rat
	LD50	681 mg/kg	Oral	Mouse
	LD50	750 mg/kg	Oral	Monkey.
triethanolamine	LD50	5000 mg/kg	Oral	Rat
	LD50	5846 mg/kg	Oral	Mouse
	LD50	5846 mg/kg	Oral	Mouse
	LD50	10000 mg/kg	Dermal	Rabbit
Sodium hydroxide	LDLo	500 mg/kg	Oral	Rabbit
Chronic effects on humans	: CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [triethanolamine]. Classified 3 (Not classifiable for human.) by IARC [2,2'-Iminodiethanol]. Classified 2B (Possible for human.) by IARC [glycine, n,n-bis(carboxymethyl)-, trisodium salt]. Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea			
Other toxic effects on humans	: No specific information is available in our database regarding the other toxic effects of this material for humans.			
Special remarks on toxicity to animals	: Very low toxicity for humans or animals. (alcohols, c11-14-iso-, c13-rich, ethoxylated)			
Special remarks on chronic effects on humans	: No additional remark.			

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Special remarks on other toxic effects on humans : No additional remark.

Specific effects

Carcinogenic effects : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Mutagenic effects : No known significant effects or critical hazards.

Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

1-Methoxy-2-propanol	Bacteria (EC50)	48 hour(s)	>1000 mg/l
	Fish (LC50)	96 hour(s)	>1000 mg/l
alcohols, c11-14-iso-, c13-rich, ethoxylated	Flora (EC50)	72 hour(s)	1 to 10 mg/l
	LEUCISCUS IDUS (LC50)	96 hour(s)	1 to 10 mg/l
	Aquatic Invertebrates. (LC50)	48 hour(s)	1 to 10 mg/l
glycine, n,n-bis(carboxymethyl)-, trisodium salt	Fish (LC50)	96 hour(s)	>200 mg/l
triethanolamine	Scenedesmus subspicatus (EC50)	72 hour(s)	750 mg/l
	Scenedesmus subspicatus (EC50)	48 hour(s)	750 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11800 mg/l
Perfume ingredient.	Not available.	Not available.	Not available.
Sodium hydroxide	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: carbon oxides (CO, CO₂) and water. nitrogen oxides (NO, NO₂...)

Toxicity of the products of biodegradation : The products of degradation are less toxic than the product itself.

Special remarks on the products of biodegradation : No additional remark.

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	Not regulated.	-	-	Not available.		Not available.
TDG Classification	Not regulated.	-	-	Not available.		Not available.
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

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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 : Not available.

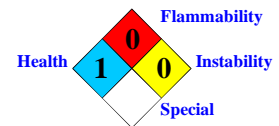
Section 16. Other information

Label Requirements : IRRITANT.

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

Health	*	1
Fire hazard		0
Reactivity		0
Personal protection		B

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.