



Material Safety Data Sheet



steel polish

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 168025164
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.05
Country : Netherlands **Validation date** : 9/15/2010.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 9/15/2010.
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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
aqua	7732-18-5	60-100	Not available.
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.
Sodium hydroxide	1310-73-2	0-1	Not available.
triethanolamine	102-71-6	0-1	Not available.
2,2'-Iminodiethanol	111-42-2	0-1	Not available.
glycine, n,n-bis(carboxymethyl)-, trisodium salt	5064-31-3	0-1	Not available.
Perfume ingredient.		0-1	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid. (pasty)

Emergency overview : No specific hazard.
No specific hazard.

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

Potential acute health effects

- Eyes** : May cause eye irritation.
- Skin** : May cause skin irritation.
- 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 exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Over-exposure signs/symptoms : Not available.

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

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Section 4. First aid measures

- Eye Contact** : 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. Get medical attention if irritation occurs.
- Skin Contact** : 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. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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** : Non-flammable.
- Auto-ignition Temperature** : Lowest known value: 350°C (662°F) (siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether).
- Flash Points** : Closed cup: Between 61°C (142°F) and 93.3°C (200°F). (Pensky-Martens.)
- Flammable limits** : Greatest known range: Lower: 3.4% Upper: 19% (Ethanol)
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂). Some metallic oxides.
- 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- 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 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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). Use spark-proof tools and explosion-proof equipment. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : 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** : Recommended: A respirator is not needed under normal and intended conditions of product use.
- Hands** : >8 hours (breakthrough time): natural rubber (latex)
- 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

Calcined Alumina

Exposure limits

ACGIH TLV (United States, 5/2004). Notes: 1996 Adoption The value is for total dust containing no asbestos and < 1% crystalline silica. Refers to Appendix A -- Carcinogens.

TWA: 10 mg/m³ 8 hour(s). Form: All forms

ACGIH TLV (United States, 1/2004).

TWA: 5 mg/m³ 8 hour(s). Form: Fume

ACGIH (United States).

TWA: 10 mg/m³

Ethanol

ACGIH (United States, 2000).

TWA: 1000 mg/m³

ACGIH TLV (United States, 5/2004). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.

TWA: 1880 mg/m³ 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

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Methanol

ACGIH TLV (United States, 9/2004). Skin Notes: Identifies substances identified in the BEI documentation for Methemoglobin inducers (for which methemoglobin is the principle toxicity) and organophosphorous cholinesterase inhibitors are part of this notation.

STEL: 328 mg/m³ 15 minute(s). Form: All forms

STEL: 250 ppm 15 minute(s). Form: All forms

TWA: 262 mg/m³ 8 hour(s). Form: All forms

TWA: 200 ppm 8 hour(s). Form: All forms

silica, crystalline - quartz

ACGIH (United States, 2002).

TWA: 0,05 mg/m³

ACGIH TLV (United States, 3/2004). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. Respirable fraction. The concentration of respirable dust for the application of this limit is to be determined for the fraction passing a size-selector with the characteristics defined in the "C." paragraph of Appendix D. Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL.

TWA: 0,05 mg/m³ 8 hour(s). Form: Respirable fraction

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

Section 9. Physical and chemical properties

Physical State and Appearance	: Liquid. (pasty)
Color	: White.
Odor	: Characteristic.
pH	: Not applicable
Relative density	: 1.3 to 1.35 g/ml (20°C / 68°F)
Viscosity	: Dynamic: Highest known value: 873 cP (siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether) Kinematic (40C): Highest known value: 18.43 cSt (white mineral oil, petroleum)
Solubility	: Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.
Flash point	: Closed cup: Between 61°C (142°F) and 93.3°C (200°F). (Pensky-Martens.)
Explosive properties	: Not available.
Explosion Limits	: Greatest known range: Lower: 3.4% Upper: 19% (Ethanol)
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	: Not available.
Hazardous Decomposition Products	: Not available.
Hazardous polymerization	: Not available.

Section 11. Toxicological information

Ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	3450 mg/kg	Oral	Mouse
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	15.8 mg/kg	Dermal	Rabbit
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog
	LC50	64 (4 hour(s))	Inhalation	Rat
citric acid, monohydrate	LD50	>6730 mg/kg	Oral	Rat

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LD50	>5400 mg/kg	Oral	Mouse
LD50	>7000 mg/kg	Oral	Rabbit
LD50	11700 mg/kg	Dermal	Rat

- Chronic effects on humans** : **CARCINOGENIC EFFECTS:** not available
- 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. (Preservative.)
- Special remarks on chronic effects on humans** : Not available.
- Special remarks on other toxic effects on humans** : Not available.
- Specific effects**
- Carcinogenic effects** : Contains material which can cause cancer. 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

Ethanol	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l
citric acid, monohydrate	DAPHNIA MAGNA (LC50)	48 hour(s)	80 mg/l
	Algae (LC50)	48 hour(s)	80 to 640 mg/l
	Goldfish (LC50)	48 hour(s)	625 mg/l

- BOD and COD** : Not available.
- Biodegradable/OECD** : Not available.
- Mobility** : Not available.
- Products of degradation** : Decomposition products may include the following materials: carbon oxides (CO, CO₂) and water. Some metallic oxides.
- Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.
- 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	Not regulated.	-	-	-		- Keep in frostfree area
TDG Classification	Not regulated.	-	-	-		- 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 :

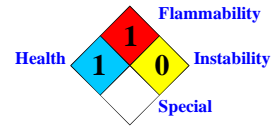
Section 16. Other information

Label Requirements : No specific hazard.

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

Health	*	1
Fire hazard		1
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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