



Material Safety Data Sheet



Marble & stone crystallizer

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 2251002
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 1.03
Country : Netherlands **Validation date** : 11-9-2007.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 11-9-2007.
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 : Creates a reaction with calcareous natural stone, giving a harder, more durable surface and repairs the gloss.

 **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	50-100	Not available.
Magnesium hexafluorosilicate	16949-65-8	5-15	Not available.
ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.	61791-44-4	0.1-1	Not available.
Acetic acid	64-19-7	0.1-1	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : DANGER
Harmful if swallowed. Irritating to eyes, respiratory system and skin.
Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Keep container closed. Use only in well-ventilated areas. Wash thoroughly after handling. If swallowed, seek medical advice immediately and show this container or label. Keep out of the reach of children.

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

Potential acute health effects

- Eyes** : This product is an eye irritant. Redness tearing eye
- Skin** : Can cause irritation. Redness
- Inhalation** : Can cause irritation. Sore throat, coughing, shortness of breath.
- Ingestion** : Can cause irritation. headache stomach pains diarrhea

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

Over-exposure signs/symptoms : Overexposure can result in severe irritation of eyes, skin, respiratory tract or ingestion system.

[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) Some metallic oxides.
- Fire hazards in presence of various substances** : Non-flammable.
- Explosion hazards in presence of various substances** : Not available.
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.
In case of fire, use water spray (fog), foam, dry chemical, or CO₂. Do not use water jet. Avoid breathing dusts, vapors, or fumes from burning materials. This material will not burn or burns with difficulty.
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** : No additional remark.

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. Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Keep container closed. Use only with adequate ventilation. 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 : No special ventilation requirements. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : splash goggles

Skin : lab coat

Respiratory : Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands : Gloves.

Other protection : Not applicable.

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.

Product Name

Exposure limits

Magnesium hexafluorosilicate

Not available.

Acetic acid

Not available.

ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.

Not available.

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

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : White

Odor : Characteristic. (Slight.)

pH : 0.9 (Conc. (% w/w): 100) [Acidic.]

Relative density : 1.093 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.
Insoluble in the following materials: methanol, diethyl ether, n-octanol, acetone.

Flash point : Not applicable.

Flammability (solid, gas) : 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 : Highly reactive with alkalis.

Hazardous Decomposition Products : Decomposition products may include the following materials: halogenated compounds, hydrogen fluoride.

Hazardous polymerization : Will not occur.

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Section 11. Toxicological information

Acetic acid	LD50	3310 mg/kg	Oral	Rat
	LDLo	600 mg/kg	Oral	Rabbit

IDLH :

Chronic effects on humans : Exposure can cause stomach pains, vomiting and diarrhea.

Other toxic effects on humans : Hazardous by the following route of exposure: of eye contact (irritant), of inhalation (lung irritant, lung corrosive).

Special remarks on toxicity to animals : No additional remark.

Special remarks on chronic effects on humans : Exposure can cause stomach pains, vomiting and diarrhea.

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.

Section 12. Ecological information

Acetic acid	Daphnia magna (EC50)	48 hour(s)	65 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	75 mg/l
	Pimephales promelas (LC50)	96 hour(s)	79 mg/l
	Pimephales promelas (LC50)	96 hour(s)	88 mg/l

BOD and COD : Not available.

Biodegradable/OECD : Not available.

Mobility : Not available.

Products of degradation : Decomposition products may include the following materials: halogenated compounds. 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 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 Keep in frostfree area
TDG Classification	Not regulated.	-	-	-		Remarks Keep in frostfree area
ADR/RID Class	Not regulated.	-	-	-		Remarks Keep in frostfree area

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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) : R22- Harmful if swallowed.
International lists : Not available.

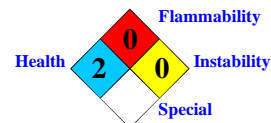
Section 16. Other information

Label Requirements : Harmful if swallowed. Irritating to eyes, respiratory system and skin.

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

Health	2
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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