



Material Safety Data Sheet



Marble crystallizer

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 2250250
Address : Damsluisweg 70 1332 EJ Almere **MSDS No.** : 1.01
Country : Netherlands **Validation date** : 4-8-2004.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 4-8-2004.
Fax : +31 (0)36 54 94 744 **Responsible name** : T. Rutgers
Internet: : www.hginternational.com **Telephone No.:** : +1.705.726.5445
Supplier : Solstrand Trading **Fax** : +1.705.734.0857
Address : 90 Hooper Road Barrie, Ontario L4N 8Z9 **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!
CAUSES RESPIRATORY TRACT BURNS.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE IRRITATION.

Do not get on skin or clothing. Avoid contact with eyes. Do not ingest. Do not breathe vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid prolonged contact with eyes, skin and clothing. If swallowed, seek medical advice immediately and show the container or label.

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

Potential acute health effects

Eyes : Hazardous in case of eye contact (irritant).

Skin : Irritation of the product in case of skin contact: Not available. Sensitisation of the product: Not available. Corrosive to skin on contact. Skin contact may produce burns.

Inhalation : Hazardous in case of inhalation (lung irritant, lung corrosive). Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure by inhalation may cause respiratory irritation.

Ingestion : Can cause irritation. headache stomach pains diarrhoea

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.

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

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

Section 4. First aid measures

- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Cold water may be used. Obtain medical attention.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. 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** : Nonflammable.
- 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** : Nonflammable.
- Explosion hazards in presence of various substances** : Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
- Fire-fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemical, or CO₂. Do not use water jet. Avoid breathing dusts, vapours or fumes from burning materials. This material will not burn or burns with difficulty.
- Protective clothing (fire)** : Boots. Gloves. Protective Clothing A self-contained breathing apparatus should be used to avoid inhalation of the product.
- Special remarks on fire hazards** : No additional remark.
- Special remarks on explosion hazards** : No additional remark.

Section 6. Accidental release measures

- Small spill and leak** : Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: **Neutralize the residue with a dilute solution of sodium carbonate.** Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- Large spill and leak** : Stop leak if without risk. Absorb with dry earth, sand or other noncombustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. **Neutralize the residue with a dilute solution of sodium carbonate.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and storage

- Handling** : Avoid contact with eyes. Do not ingest. Do not breathe vapour or mist. Do not get on skin or clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

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Section 8. Exposure Controls, Personal Protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Personal protection

Eyes : Safety glasses.

Body : Lab coat.

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

Hands : Impervious gloves.

Feet : Boots.

Protective clothing (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.

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.

Colour : White.

Odour : Characteristic. (Slight.)

Taste : Not available.

pH : 0.9 [Acidic.]

Relative density : 1.093 g/cm³

Viscosity : Not available.

Solubility : Easily soluble in hot water.
Soluble in cold water.
Insoluble in methanol, diethyl ether, n-octanol, acetone.

Flash point : Not applicable.

Flammability (solid, gas) : Not applicable.

Oxidising properties : Not applicable

Physical chemical comments : Not available.

Section 10. Stability and reactivity

Stability and Reactivity : The product is stable.

Conditions of instability : Not available.

Incompatibility with various substances : No specific information is available in our database regarding the reactivity of this material in the presence of various other materials.

Hazardous decomposition products : These products are halogenated compounds, hydrogen fluoride.

Hazardous polymerization : Will not occur.

Section 11. Toxicological information

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

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

Other toxic effects on humans : Hazardous in case 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 : Not available.

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

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 : These products are 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 : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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.		Remarks Keep in frostfree area
TDG Classification	Not regulated.	-	-	Not available.		Remarks Keep in frostfree area
ADR/RID Class	Not regulated.	-	-	Not available.		Remarks Keep in frostfree area
IMDG Class	Not regulated.	-	-	Not available.		Remarks Keep in frostfree area
IATA-DGR Class	Not regulated.	-	-	Not available.		Remarks Keep in frostfree area

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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) : R22- Harmful if swallowed.

International lists : Australia (NICNAS): aqua; Magnesium hexafluorosilicate; Acetic acid; ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.

China: aqua; Magnesium hexafluorosilicate; Acetic acid; ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.

Germany water class: Magnesium hexafluorosilicate; Acetic acid; ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.

Japan (MITI): aqua; Magnesium hexafluorosilicate; Acetic acid

Korea (TCCL): aqua; Magnesium hexafluorosilicate; Acetic acid; ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.

Philippines (RA6969): aqua; Magnesium hexafluorosilicate; Acetic acid; ethanol, 2,2'-iminobis-, n-tallow alkyl derivs.

Section 16. Other information

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.