

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

CONCRETE HARDENER

Date Issued: 29/07/2009

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MANUFACTURED BY: BDT Pty Ltd trading as Rockstar Sealing Systems, 3 Spray Avenue Mordialloc, VIC 3195, Australia Tel. 61 1300 88 44 18

Classified as **Hazardous** according to criteria of NOHSC and **Dangerous Goods** according to the ADG Code.

UN NO.....:	2856	D.G. Class.:	6.1	Pack. Group...:	III
HAZCHEM:	2X	SUB. RISK.:	None allocated	SUSDP.....:	S6
G.T.EPG...:	6B5	SPEC. EPG:	None allocated	CAS NO.....:	None allocated

PROPER SHIPPING NAME: FLUOROSILICATES, N.O.S. - (Contains MAGNESIUM HEXA-FLUOROSILICATE)

OTHER NAMES: N/A

USES: Concrete surface hardening

2. COMPOSITION/INFORMATION ON INGREDIENTS

No	Component	CAS No	Weight %
1	Magnesium Hexafluorosilicate	18972-56-0	10-20%
2	Non-ionic Surfactant		<10%

3. HEALTH HAZARDS INFORMATION

Health Effects of Acute Overexposure

EYES: Corrosive to eyes. Contact with eyes may cause severe irritation and burns.

SKIN: Corrosive to skin and mucous membranes. Contact with skin may cause severe irritation and burns. May be absorbed through skin in toxic amounts.

INHALATION: Inhalation of vapor or mist can cause irritation of nose, throat and lungs and lead to headaches and nausea.

INGESTION: May be fatal if swallowed in sufficient amounts. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

Chronic Health Effects:

Chronic exposure may cause osteofluorosis and permanent respiratory impairment.

FIRST AID MEASURES

EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower eyelids. If irritation persists seek medical attention.

SKIN CONTACT: Wash contaminated area with soap and water. Remove and launder contaminated clothing.

INGESTION: If a large amount is ingested, give water or milk and induce vomiting. Seek medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped administer artificial respiration. Seek medical attention if condition persists.

4. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

This material will not burn in its liquid state unless heated above its flash point. Dried films may burn and can be extinguished by water spray, foam, dry chemical or carbon dioxide.

SPECIAL FIREFIGHTING PROCEDURES:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool these containers.

5. ACCIDENTAL RELEASE MEASURES

Wear personal protective equipment to prevent eye and skin contact. Do not allow into drains or waterways. Take up with absorbent material (sand, universal absorbent). Dispose of empty containers in accordance with federal, state and local laws.

6. HANDLING AND STORAGE

HANDLING INFORMATION:

Wear chemical resistant gloves and protective clothing to minimize contact. The use of respiratory protection is advised when spraying because of mist and dust overspray.

STORAGE INFORMATION:

Keep from freezing; material may coagulate. The minimum recommended storage temperature is 1°C, the maximum recommended storage temperature is 48°C. Keep away from incompatible materials (see section 10). Keep containers tightly closed. It is advised that material be used within 1 year of manufacture, rotate stock.

OTHER PRECAUTIONS:

All empty containers should be disposed of in an environmentally safe manner in accordance with all governmental regulations.

7. PERSONAL PROTECTION AND EXPOSURE CONTROLS

Respiratory protection: Not required under normal conditions of use. Wear appropriate approved respirator with combination particulate filter and vapor/gas removing cartridge when the ventilation is not adequate.

Hand protection: Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.

Eye protection: Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Skin and body protection: Prevent contact with shoes and clothing. Use rubber apron and overshoes.

Protective measures: Other equipment not normally required. Use professional judgment in the selection, care, and use.

Engineering measures: Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

No known components with exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour	Colourless liquid
State	Liquid
Odour Characteristic	Negligible
pH	2.5
Viscosity	Not specified
Specific Gravity (Water = 1)	1.07 g/ml
Vapour Density (Air = 1)	N/A
Vapour Pressure	N/A
Melting Point	N/A
Boiling Point	100°C
Solubility in Water	Miscible
Flash Point	None

8. STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage.

Conditions to avoid

Strong acids. Strong bases.

Hazardous Polymerisation

Will not occur.

Hazardous decomposition products

Decomposes to toxic and corrosive fumes including fluorine but mainly silicon tetrafluoride which can react with most metal and produce hydrofluoric acid.

9. TOXICOLOGICAL INFORMATION

No Data Available

10. ECOLOGICAL INFORMATION

No Data Available

11. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

12. TRANSPORT INFORMATION

This material is classified as a Class 6.1 Dangerous Good according to the Australian Code for the Transport of Dangerous Goods. Class 6.1 Toxic substances are incompatible in a placard load with any of the following:

- Class 1, Explosives.
- Class 3, if the Class 3 dangerous goods are nitromethane.
- Class 5.1, if the Class 6 dangerous goods are fire risk substances.
- Class 5.2, if the Class 6 dangerous goods are fire risk substances.
- Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.

14 TRANSPORT INFORMATION (Cont.)

U.N. Number: 2856

Proper Shipping Name: FLUOROSILICATES, N.O.S. - (Contains MAGNESIUM FLUOROSILICATE)

DG Class: 6.1

Hazchem Code:2X

Packaging Method:3.8.6.1RT8

Packing Group:III

EPG Number:6B5

IERG Number:34

13. REGULATORY INFORMATION

Labelling Requirements According to Criteria of NOHSC:

R20	Harmful by inhalation.
R25	Toxic if swallowed.
S23	Do not breath gas/fumes/vapour/spray
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	If insufficient ventilation, wear suitable respiratory equipment...
S45	In case of accident or if you feel unwell seek medical advice immediately
S51	Use only in well ventilated areas.

14. OTHER INFORMATION

The advice and information contained herein is based on our best knowledge of the health and safety hazard information of the product. We believe the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. We urge persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation.