



Material Safety Data Sheet

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Infosafe No. 1HG28 Issue Date : August 2006 ISSUED by PARCHEMC

Product Name : FOSROC NITOBOND EP HARDENER

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name FOSROC NITOBOND EP HARDENER
Company Name Parchem Construction Products Pty Ltd (ABN 80 069 961 968)
Address 7 Lucca Road Wyong
NSW 2259 Australia
Emergency Tel. 1800 638 556
Telephone/Fax Number Tel:
02 4350 5000
Fax:
02 4351 2024
Email www.parchem.com.au
Recommended Use Hardener component of epoxy primer.
Other Information This MSDS summaries at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Parchem Construction Products Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.
If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard term and conditions, a copy of which is sent to our customers and is also available upon request.

www.parchem.com.au

2. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrase(s) S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Isophorone diamine	2855-13-2	30-60 %
	Crystalline Silica	14808-60-7	10-30 %
	Polyoxypropylenediamine	9046-10-0	5-20 %
	Trimethylhexamethylenediamine (TMD)	25620-58-0	0-10 %
	Other ingredients determined not to be hazardous	Not required	Balance

4. FIRST AID MEASURES

Inhalation Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention.



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Ingestion Do NOT induce vomiting. Immediately wash out mouth with water. Seek immediate medical attention.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek immediate medical attention.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

First Aid Facilities Eye wash fountains and safety showers should be available for emergency use.

Advice to Doctor Treat symptomatically or consult a Poisons Information Centre (Phone 131 126).

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use dry chemical powder, carbon dioxide or foam.

Hazards from Combustion Products Do NOT use water jets. Cool fire exposed containers with water spray.

Specific Hazards Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and nitrogen oxides.

Hazchem Code Combustible substance. This product will burn if exposed to fire.

Precautions in connection with Fire 3X

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Remove all sources of ignition. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Do not dilute material but contain. Place inert, non-combustible absorbent material onto the spillage. Collect the material using clean non-sparking tools and place into a suitable labelled container for subsequent disposal. If this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. Wear appropriate protection. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Provide a catch-tank in a bunded area.

Corrosiveness Not corrosive to aluminium.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Crystalline Silica			0.1		



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Other Exposure Information	<p>No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC), however, the exposure limits for crystalline silica are given above.</p> <p>TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.</p> <p>STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.</p> <p>The product contains respirable crystalline silica. Prolonged or concentrated inhalation of respirable crystalline silica dust may lead to silicosis, a serious lung disease. Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma. However, as the material is a liquid or paste dispersion, there should be minimal risk on use, in this regard. Care must be taken not to inhale dusts of dried product, during sanding, cutting or machining.</p> <p>Crystalline silica has been classified by International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1).</p>
Engineering Controls	Ensure sufficient ventilation to keep airborne concentrations below exposure limits. Mechanical exhaust ventilation may be required.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White paste.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Negligible.
Specific Gravity	Not available
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	115°C (Penskey Martens Closed Cup)
Flammability	Combustible substance. This product will burn if exposed to fire.
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

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10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid Heat, direct sunlight, open flames or other sources of ignition.

Incompatible Materials Strong oxidising agents, strong acids and strong bases.

Hazardous Decomposition Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and nitrogen oxides.

Hazardous Reactions Product as received will not present a dust explosion hazard. If cured material made using this product is to be machined, or sanded, a dust explosion hazard may be created. All dust generated should be removed as quickly as possible, preferably by the use of a vacuum cleaner.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicology data available for this product, however, the toxicity data for individual ingredients are listed as:
Isophorone Diamine
LD50 (oral, rat) = 242 mg/kg
LD50 (dermal, rabbit) = 360 mg/kg

Inhalation Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.

Ingestion Harmful if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

Skin Harmful in contact with skin. This product may cause sensitisation in some individuals. Irritating to skin resulting in redness and itching. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

Eye Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

Chronic Effects Prolonged or repeated skin contact may lead to allergic contact dermatitis and sensitisation in some individuals. Prolonged exposure to phenol have been reported to cause death from liver and kidney injuries. It may also affect the pancreas and heart muscle.

Other Information This product contains crystalline silica, which is not a health hazard in its retail appearance as a paste. However, if dusts are generated through drying the paste and grinding it up into a powder form, crystalline silica may pose serious long term health effects.
Crystalline silica is classified as a Class 1 Human Carcinogen according to IARC (International Agency for Research on Cancer), however Worksafe Australia has yet to classify crystalline silica as a human carcinogen.
Repeated exposure to respirable crystalline silica dust may lead to silicosis, a serious lung disease. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill health have occurred.
Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma.
Exposure to fine dust (respirable crystalline silica dust) contained in the products must be prevented to avoid risk of lung disease.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available for this material.

Persistence / Degradability No data is available for this material.

Mobility No data is available for this material.

Environ. Protection Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS



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Disposal Considerations Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

Transport Information This material is classified as a Class 8 (Corrosive) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 4.3, Dangerous When Wet Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substance

and are incompatible with food and food packaging in any quantity.

U.N. Number 2735

Proper Shipping Name AMINES, LIQUID, CORROSIVE, N.O.S. - (CONTAINS: ISOPHORONE DIAMINE)

DG Class 8

Hazchem Code 3X

Packaging Method 3.8.8

Packing Group III

EPG Number 8A1

IERG Number 36

15. REGULATORY INFORMATION

Poisons Schedule S5

Hazard Category Harmful, Corrosive

16. OTHER INFORMATION

Date of preparation MSDS Reviewed: August 2006

or last revision of MSDS Superseded: June 2005

MSDS

Contact Person/Point Technical Support: 1800 812 864

...End Of MSDS...