

CS: 1.4.92

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Product Name FOSROC NITOBOND EP HARDENER

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name FOSROC NITOBOND EP HARDENER

Company Name Parchem Construction Supplies Pty Ltd (ABN ABN 80 069 961)

Address 7 Lucca Road Wyong

NSW 2259 Australia

Emergency Tel. Australia 1800 638 556 and New Zealand 0800 154 666 (both available 24/7)

 Telephone/Fax
 Tel:
 02
 4350
 5000

 Number
 Fax:
 02
 4351
 2024

Recommended Use Hardener component of epoxy primer.

Other Information Distributed in New Zealand by:

Concrete Plus 23 Watts Road Sockburn New Zealand

Tel: (03) 343 0090 Fax: (03) 343 0202

This MSDS summarises 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 Supplies 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 terms and conditions, a copy of which is sent to our customers and is also available upon request.

Australia: www.parchem.com.au New Zealand: www.parchem.co.nz

2. HAZARDS IDENTIFICATION

Hazard Classification

Classified as hazardous

Australia:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO Classification:

6.1D (Dermal) - Substance that is acutely toxic
6.1D (Oral) - Substance that is acutely toxic

6.5B - Substance that is a contact sensitiser

6.7A - Substance that is known or presumed to be a human carcinogen

6.9A (Repeated exposure) - Substance that is toxic to human target organs or systems

8.2C - Substance that is corrosive to dermal tissue

8.3A - Substance that is corrosive to ocular tissue

9.1C - Substance that is harmful in the aquatic environment 9.3C - Substance that is harmful to terrestrial vertebrates

Hazard statement codes: H302 Harmful if swallowed.



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- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H350 May cause cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- H433 Harmful to terrestrial vertebrates.

Precautionary statement codes - Prevention:

- P102 Keep out of reach of children. -This statement applies only where the substance is available to the general public.
- P102* Keep out of reach of children. -This statement applies only where the substance is available to the general public.
- P103* Read label before use. -This statement applies only where the substance is available to the general public.
- P104 Read Safety Data Sheet before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray*. * specify applicable conditions
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment. -This statement does not apply where this is the intended use.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

Precautionary statement codes - Response:

- P101* If medical advice is needed, have product container or label at hand. -This statement applies only where the substance is available to the general public.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P308+P313 IF exposed or concerned: Get medical advice/ attention.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- P363 Wash contaminated clothing before reuse.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all
- contaminated clothing. Rinse skin with water/shower.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statement codes - Storage:

P405 Store locked up.

Precautionary statement codes - Disposal:

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.





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Risk Phrase(s) Classified as hazardous

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 eves.

> \$36/37/39 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	Hazard Symbol	Risk Phrase
	Isophoronediamine	2855-13-2	30-60 %	Xn, C	R21/22, R34, R43
	Crystalline Silica	14808-60-7	10-30 %		
	Polyoxypropylened iamine.	9046-10-0	5-20 %		
	Trimethylhexameth ylenediamine (TMD)	25620-58-0	0-10 %		
	Other ingredients determined not to be hazardous	Not required	Balance		

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not

breathing. Seek medical attention.

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. 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.

Other Information For advice in an emergency, contact a Poisons Information Centre (Phone

Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at

once.

5. FIRE FIGHTING MEASURES

Use dry chemical powder, carbon dioxide or foam. Suitable

Do NOT use water jets. Cool fire exposed containers with water spray. **Extinguishing Media** Hazards from

Under fire conditions this product may emit toxic and/or irritating fumes

including carbon monoxide, carbon dioxide and nitrogen oxides.

Specific Hazards

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

Hazchem Code

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

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Combustion **Products**

Eve

Increase ventilation. Evacuate all unprotected personnel. Wear protective clothing and equipment to prevent exposure. If possible contain the spill. If necessary place inert absorbent onto material. Prevent run off into drains and waterways. Use clean non-sparking tools to collect the material and place into suitable, labelled containers. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national





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regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Corrosive liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:

Quartz (Crystaffine Sifica) - 0.1 - - -

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Substance TWA STEL NOTICES

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.

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.

A2 CARCINOGEN: Suspect human carcinogen.

Biological Limit Values

Engineering Controls No biological limit allocated.

Ensure ventilation is adequate to maintain concentrations below exposure

Respiratory Protection standards. The use of a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, is recommended. 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

Eye Protection

Devices. 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





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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

White paste. **Appearance** Not available Odour **Melting Point** Not available **Boiling Point** Not available Solubility in Water Negligible. 1.34 @ 23 °C **Specific Gravity** pH Value Not available Vapour Pressure Not available Not available Vapour Density

(Air=1)

Flash Point 115°C (Penskey Martens Closed Cup)

Flammability Combustible substance.

Auto-Ignition

Temperature

Flammable Limits -

Lower Flammable Limits -

Not available

Not available

Not available

Upper

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

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

Incompatible

Strong oxidising agents, strong acids and strong bases.

Materials

Hazardous

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

Decomposition

Products

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.

Will not occur.

Polymerization

Hazardous

11. TOXICOLOGICAL INFORMATION

No toxicology data available for this product, however, the toxicity data for Toxicology

individual ingredients are listed as: Information

Isophorone Diamine

LD50 (oral, rat) = 242 mg/kgLD50 (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.



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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.

Carcinogenicity 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 Not available

Persistence/ Not available

Degradability

Mobility Not available

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

13. DISPOSAL CONSIDERATIONS

Disposal Considerations

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a solvent-based combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal. Large volumes may be re-distilled by solvent recovery contractors. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the ERMA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. TRANSPORT INFORMATION

Transport Road and Rail Transport (ADG Code):

Information Australia:

This material is classified as a Class 8 (Corrosive Substances) Dangerous



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Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 4.3, Dangerous When Wet Substances
- Class 5.1, Oxidising Agents
- Class 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids ${}^{\circ}$
- Class 7, Radioactive Substances

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

New Zealand:

This material is classified as a Class 8 Corrosive Substance according to NZS 5433:2007 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides
- Class 7, Radioactive materials unless specifically exempted

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

Note 1: Cyanides (Class 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).

Note 2: Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- Class 4.3, Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Class 4.3, Dangerous when wet substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides

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

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS

ISOPHORONEDIAMINE)

Class: 8

Packaging Group: III

EMS: F-A, S-B

IMDG Marine Pollutant: No

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS

ISOPHORONEDIAMINE)

Class: 8

Packing Group: III Labelling No: 8

Packing Instruction: 818 (For passenger and cargo aircraft)

Packing Instruction: 820 (For cargo aircraft only)

U.N. Number 2735

Proper Shipping

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

Name DG Class

8



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Hazchem Code 2X
Packing Group III
EPG Number 8A1
IERG Number 36

15. REGULATORY INFORMATION

Regulatory Australia:

Information Classified as Hazardous according to criteria of National Occupational Health

& Safety Commission (NOHSC), Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform

Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule S5

National and or New Zealand:

International Classified as Hazardous according to the New Zealand Hazardous Substances

Regulatory (Minimum Degrees of Hazard) Regulations 2001.

Information Group Standard:

Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2006

All components of this product are listed on the New Zealand Inventory of

Chemicals (NZIC).

HSNO Approval

Number

MSDS

HSR002491

Hazard Category Harmful, Corrosive

16. OTHER INFORMATION

Date of preparation or last revision of

MSDS Reviewed: January 2011 MSDS supersedes: August 2006 Minor Amendment: September 2010

Contact Person/Point Technical Support: 1800 812 864

...End Of MSDS...

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