

Infosafe No™ LPT50	Issue Date : July 2009	ISSUED by PARCHEMC
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Product Name **FOSROC NITOMORTAR ELS PLURAL HARDENER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name FOSROC NITOMORTAR ELS PLURAL HARDENER

Company Name Parchem Construction Supplies Pty Ltd (ABN 80 069 961 968)

Address 7 Lucca Road Wyong
NSW 2259 Australia

Emergency Tel. 1800 638 556 (available 24/7)

Telephone/Fax Number Tel: 02 4350 5000
Fax: 02 4351 2024

Recommended Use Part of a two pack epoxy resin for spraying application for relining sewers.

Other Information 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.

www.parchem.com.au

2. HAZARDS IDENTIFICATION

Hazard Classification 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 (ADG Code).

Risk Phrase(s) R20/21/22 Harmful by inhalation, 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) S1/2 Keep locked up and out of reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap and water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Other Information This product contain crystalline silica. Silica may be released by sanding, grinding or machining of cured product. Use approved dust respirator when sanding, grinding or machining cured product.
Crystalline silica as respirable dust is classified as a Class 1 Human Carcinogen according to IARC (International Agency for Research on Cancer). Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Silica (crystalline-quartz)	14808-60-7	30-60 %
	Isophoronediamine	2855-13-2	10-<30 %
	Benzyl alcohol	100-51-6	10-<30 %

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Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Nonylphenol	25154-52-3	1-<5 %
	Ingredients determined not to be hazardous		To 100%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove from contaminated area. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	If swallowed, do NOT induce vomiting. Immediately wash out mouth and lips with water. Seek immediate medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek 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. Seek immediate medical attention.
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, carbon dioxide, water spray or water fog.
Hazards from Combustion Products	Combustion products include oxides of carbon, oxides of nitrogen and ammonia gas.
Specific Hazards	Combustible liquid; will readily burn under fire conditions. Heating can cause expansion or decomposition leading to violent rupture of containers.
Hazchem Code	3X
Decomposition Temp.	>200°C
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	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 regulations.
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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. The product contains respirable crystalline silica. Take appropriate measures to prevent inhalation of respirable dust if the cured or dried product is cut, machined or sanded.
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Conditions for Safe Storage Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, acids, bases, foodstuffs, 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.

Storage Regulations COMBUSTIBLE LIQUID - CLASS C1, Flashpoint >60.5°C-150°C. Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940-2004 The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC), Australia. However, over-exposure to some industrial chemicals may result in adverse health effects or enhancement of pre-existing medical conditions and/or allergic reactions, and should be kept to the least possible levels.

The available exposure standards for ingredients are stated below:

Substance	TWA		STEL		Notice
	ppm	mg/m ³	ppm	mg/m ³	
Silica (as Quartz) (Respirable dust)	-	0.1	-	-	-

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.

Biological Limit Values No biological limit allocated.

Engineering Controls The ventilation should be adequate to keep the airborne contaminants as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, is required.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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 laminated film, nitrile, neoprene or other suitable, impervious gloves. 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 Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Dark grey liquid.

Odour Ammoniacal odour.

Decomposition Temperature >200°C

Melting Point Not available

Boiling Point >200°C

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Product Name **FOSROC NITOMORTAR ELS PLURAL HARDENER**

Solubility in Water	Insoluble
Specific Gravity	1.25 at 23°C
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Viscosity	Not available
Flash Point	90°C (Closed Cup)
Flammability	Combustible liquid.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Incompatible Materials	Incompatible with oxidising agents, strong acids and strong bases.
Hazardous Decomposition Products	Thermal decomposition and combustion produce noxious fumes containing oxides of carbon, oxides of nitrogen, amine compounds and ammonia.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data are available for this specific product. The available data for the ingredients are as follows: For Isophoronediamine: LD50 (Oral, Rat): >1,030 mg/kg Testing demonstrated that isophorone diamine is a strong skin sensitiser (15 out of 15 test rabbit were sensitised). For Benzyl alcohol: LD50 (Oral, Rat): 1,230 mg/kg LD50 (Dermal, Rabbit) 2000 mg/kg Standard Draize Test: 100 mg/24H moderate reaction
Inhalation	Harmful by inhalation. Inhalation of vapour, mist or fumes can cause severe irritation and chemical burns to the respiratory tract. May cause bronchitis, pneumonia and pulmonary oedema.
Ingestion	Harmful and corrosive if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach. Subsequent to ingestion or vomiting, small amounts of liquid aspirated into the respiratory system may cause severe pulmonary injury that may lead to death.
Skin	Harmful in contact with skin. Corrosive to skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. May cause sensitisation by skin contact.
Eye	Corrosive to ocular tissue. Will cause severe irritation or burns to the eyes, which can result in redness, stinging, pain, loss of vision, corneal oedema, lachrymation and possibly irreversible eye damage.
Chronic Effects	Prolonged or repeated skin contact may cause dermatitis. May cause sensitisation by skin contact. Those sensitised may react to concentration levels that do not affect other, non-sensitised, people.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence / Degradability	Not available

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Mobility Not available
Bioaccumulative Potential Not available
Environ. Protection Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable national and local regulations.

14. TRANSPORT INFORMATION

Transport Information Road and Rail Transport (ADG Code):
Classified as Dangerous Goods Class 8 according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
Class 8 - Corrosive Substances 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 Substances (where the Toxic substances are cyanides and the corrosives are acids),
- Class 7, Radioactive Substances
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 ISOPHORONE DIAMINE)
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 ISOPHORONE DIAMINE)
Class: 8
Packing Group: III
Labelling No: 8
Packing Instruction: 818 (For passenger and cargo aircraft)
Packing Instruction: 820 (For cargo aircraft only)
2735

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

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Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule	S5
Hazard Category	Harmful, Corrosive
AICS (Australia)	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or otherwise are in compliance with NICNAS requirements.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Reviewed: July 2009 Supersedes: August 2004
Contact Person/Point	Technical Support: 1800 812 864 ...End Of MSDS...

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