

Infosafe No™ LPT8X	Issue Date : July 2009	ISSUED by PARCHEMC
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Product Name **FOSROC NITOMORTAR ELS PLURAL BASE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name FOSROC NITOMORTAR ELS PLURAL BASE

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 Base component of epoxy resin for spray 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) R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s) 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.
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>
	Bisphenol F epoxy resin	9003-36-5	20-<40 %
	Silica (crystalline-quartz)	14808-60-7	10-<30 %
	Bisphenol A epoxy resin	25068-38-6	10-<30 %
	1,4-Butanediol diglycidyl ether	2425-79-8	1-<10 %

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Ingredients	Name	CAS	Proportion
	Ingredients determined not to be hazardous		To 100%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	If swallowed, do NOT induce vomiting. Wash out mouth and lips with copious amounts of water. Seek medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Ensure contaminated clothing is washed before re-use or discard. If irritation develops, 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 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	Carbon dioxide, foam, dry chemical, water spray or water fog.
Hazards from Combustion Products	Under fire conditions this product may form carbon dioxide, carbon monoxide, aldehydes and other products of incomplete combustion. Hazardous dusts (crystalline silica) may also be produced.
Specific Hazards	Combustible substance. The organic component of this product will burn if exposed to fire. Heating can cause expansion or decomposition leading to violent rupture of containers.
Hazchem Code	2X
Decomposition Temp.	220°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.
Unsuitable Extinguishing Media	High volume water jet.

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. Place inert non-combustible 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	Use in a well ventilated area. Do not generate vapours or mists in the work atmosphere. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Practice good personal hygiene, that is, always wash hands after handling the product, 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, epoxy curing agents, 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. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.
Storage Regulations	COMBUSTIBLE LIQUID - CLASS C2, Flashpoint >150°C. Classified as a Class C2 (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 the mixture by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some industrial chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels. The available exposure standards for ingredients are stated below:																
	<table border="0" style="width: 100%;"> <thead> <tr> <th rowspan="2">Substance</th> <th colspan="2">TWA</th> <th colspan="2">STEL</th> <th rowspan="2">Notice</th> </tr> <tr> <th>ppm</th> <th>mg/m³</th> <th>ppm</th> <th>mg/m³</th> </tr> </thead> <tbody> <tr> <td>Silica (as Quartz) (Respirable dust)</td> <td>-</td> <td>0.1</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Substance	TWA		STEL		Notice	ppm	mg/m ³	ppm	mg/m ³	Silica (as Quartz) (Respirable dust)	-	0.1	-	-	-
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	Provide good general ventilation. Where vapours or mists are generated the use of a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, should be used.																
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. 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, in order to make any necessary changes for individual circumstances.																
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate should be used. 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 e.g. laminated film. 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. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust of dried product when removing or laundering clothes.																

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White liquid.
Odour	Characteristic epoxy odour.
Decomposition Temperature	220°C

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Melting Point	150-155°C
Boiling Point	Not available
Solubility in Water	Insoluble
Specific Gravity	1.23 at 23°C
Vapour Pressure	Not available
Vapour Density (Air=1)	>1
Flash Point	>200°C (PMCC)
Flammability	Combustible substance.
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	Oxidising agents, strong acids, strong bases, amines and mercaptans.
Hazardous Decomposition Products	Thermal decomposition may evolve carbon dioxide and carbon monoxide.
Hazardous Polymerization	Hazardous polymerisation may occur if large quantities are mixed with amines or mercaptans.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data are available for this specific product. The available data for the ingredients are as follows: For Bisphenol A diglycidyl ether resin: LD50 (Oral, Rat): 11,400 mg/kg LD50 (Dermal, Rabbit): >20,000 mg/kg
Inhalation	Vapours or mists may cause irritation of respiratory system. Symptoms may include headache, nausea and dizziness.
Ingestion	May irritate of the gastrointestinal system. Symptoms may include nausea, vomiting and diarrhoea.
Skin	Irritating to skin. May cause sensitisation by skin contact. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
Eye	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Prolonged or repeated skin contact may lead to allergic contact dermatitis and sensitisation in some individuals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environ. Protection	Do not discharge product into drains, sewers or waterways.

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
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local and national regulations.

14. TRANSPORT INFORMATION

Transport Information	<p>Road and Rail Transport: Classified as Dangerous Goods Class 9 according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). When the Class 9 - Miscellaneous Dangerous Goods are fire risk substances they are incompatible in a placard load with dangerous goods of: Class 1, Explosives Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides.</p> <p>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.: 3082 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESINS) DG Class: 9 Packaging Group: III EMS: F-A, S-F IMDG Marine Pollutant: No</p> <p>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.: 3082 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESINS) DG Class: 9 Packaging Group: III Packing Instruction: 914 (For passenger and cargo aircraft) Packing Instruction: 914 (For cargo aircraft only) 3082</p>
U.N. Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (CONTAINS EPOXY RESINS)
DG Class	9
Hazchem Code	2X
Packaging Method	3.8.9
Packing Group	III
EPG Number	9C1
IERG Number	47

15. REGULATORY INFORMATION

Regulatory Information	<p>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).</p>
Poisons Schedule	S5
Hazard Category	Irritant, Dangerous for the environment
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
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Contact

Technical Support: 1800 812 864

Person/Point

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