



# Material Safety Data Sheet

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Product Name : **FOSROC NITOPRIME ZINCRICH**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

<b>Product Name</b>	FOSROC NITOPRIME ZINCRICH
<b>Product Use</b>	A zinc rich paint for cathodic protection of steel against rust, mainly used as part of the Renderoc concrete repair system.
<b>Company Name</b>	Parchem Construction Products Pty Ltd (ABN 80 069 961 968)
<b>Address</b>	7 Lucca Road Wyong NSW 2259 Australia
<b>Emergency Tel.</b>	1800 638 556
<b>Telephone Number/Fax</b>	Tel: 02 4350 5000 Fax: 02 4351 2024
<b>Other Information</b>	<p>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.</p> <p>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.</p> <p>www.parchem.com.au</p>

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Zinc Powder	7440-66-6	40-60 %
	1-methoxy-2-propanol	107-98-2	10-30 %
	Epoxy resin	Not required	10-30 %
	Toluene	108-88-3	0-10 %
	Cyclohexanone	108-94-1	0-10 %

## 3. HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of the NOHSC.  
Classified as dangerous goods according to the ADG Code.

### RISK PHRASES:

R11 Highly flammable.  
R15 Contact with water liberates extremely flammable gases.  
R17 Spontaneously flammable in air.

### SAFETY PHRASES:

S16 Keep away from sources of ignition - No smoking.  
S2 Keep out of reach of children.  
S23 Do not breathe gas/fumes/vapour/spray  
S24/25 Avoid contact with skin and eyes.  
S29 Do not empty into drains.  
S30 Never add water to this product.  
S33 Take precautionary measures against static discharges.  
S8 Keep container dry.

## 4. FIRST AID MEASURES

<b>Inhalation</b>	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.
<b>Ingestion</b>	Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.



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**Skin**      If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash contaminated clothing before re-use. If irritation occurs seek medical advice.

**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 and normal washroom facilities.

**Advice to Doctor**      Treat symptomatically.

**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

**Extinguishing Media**      Use dry chemical powder, carbon dioxide or foam.  
Do NOT use water jets. Cool fire exposed containers with water spray.

**Specific Hazards**      This product is highly flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

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

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

## 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

**Corrosiveness**      Not corrosive to aluminium.

**Handling**      Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. When dealing with large quantities, repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. 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.

**Storage**      Store in a cool, dry, well-ventilated area away from 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. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Do not stack more than 3 pallets high. 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. Reference should also be made to all State and Federal regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	1-methoxy-2-propanol	553	150	369	100	
	Toluene	565	150	377	100	
	Cyclohexanone			100	25	
<b>Other Exposure Information</b>	No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC), however, the exposure limits of individual ingredients are listed above.					
<b>Respiratory Protection</b>	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.					
<b>Eye Protection</b>	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.					
<b>Hand Protection</b>	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.					
<b>Body Protection</b>	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.					
<b>Eng. Controls</b>	Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Silver/Grey viscous liquid
<b>Odour</b>	Aromatic solvent
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Approx. 120°C
<b>Solubility in Water</b>	Partially soluble
<b>Specific Gravity (H2O=1)</b>	1.93
<b>Vapour Pressure</b>	< 1.6 mmHg
<b>Volatile Component</b>	Approx. 25% w/w
<b>Flash Point</b>	16°C
<b>Flammability</b>	This product is highly flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
<b>Flammable Limits LEL</b>	1.1%
<b>Flammable Limits UEL</b>	12.5%



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**Other Information** Auto ignition temperature 290°C.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal use conditons.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Materials to Avoid</b>	Incompatible with strong oxidisers and strong acids.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide and trace amounts of zinc oxides may be formed on combustion.
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	The following toxicological assessment is based on a knowledge of the toxicity of the product's components. LD50 (oral, rat) > 2,000 mg/kg
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Aspiration of liquid during ingestion or from vomiting may cause severe chemical pneumonitis
<b>Skin</b>	May cause redness, itching and irritation.
<b>Eye</b>	May cause eye irritation, tearing, stinging, blurred vision, and redness.
<b>Chronic Effects</b>	Prolonged or repeated skin exposure may cause skin disorder.

## 12. ECOLOGICAL INFORMATION

<b>Environ. Protection</b>	Contains volatile organic compounds. May cause significant ecological damage in aquatic systems and must be used and disposed of in accordance with the recommendations made in this safety data sheet.
<b>Mobility</b>	Prevent this material entering waterways, drains and sewers.
<b>Persistence / Degradability</b>	No data is available for this material.
<b>Bioaccumulation</b>	Not readily biodegradable, but is inherently biodegradable. Volatile organic compounds undergo photochemical degradation in the atmosphere.
<b>Ecotoxicity</b>	No data is available for this material.
	Moderately ecotoxic to marine organisms.

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

	This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following: - Class 1, Explosive - Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gas - Class 4.2, Spontaneously Combustible Substance - Class 5.1, Oxidising Agent - Class 5.2, Organic Peroxide - Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane - Class 7, Radioactive Substance
<b>U.N. Number</b>	1263
<b>Proper Shipping Name</b>	PAINT, (ZINC RICH KIT)
<b>DG Class</b>	3



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<b>Hazchem Code</b>	3[Y]
<b>Packaging Method</b>	3.8.3
<b>Packing Group</b>	III
<b>EPG Number</b>	3C1
<b>IERG Number</b>	14
<b>Other Information</b>	Product placed in PG III because meets criteria as viscous substance etc under ADG Code.

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## 15. REGULATORY INFORMATION

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<b>Risk Phrase</b>	R11 Highly flammable. R15 Contact with water liberates extremely flammable gases. R17 Spontaneously flammable in air.
<b>Safety Phrase</b>	S16 Keep away from sources of ignition - No smoking. S29 Do not empty into drains. S33 Take precautionary measures against static discharges. S35 This material and its container must be disposed of in a safe way. S7 Keep container tightly closed. S8 Keep container dry. S9 Keep container in a well ventilated place.
<b>Poisons Schedule</b>	S5
<b>Hazard Category</b>	Highly Flammable
<b>AICS (Australia)</b>	All components in this product are listed on AICS (Australian Inventory of Chemical Substances).

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## 16. OTHER INFORMATION

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<b>Contact Person/Point</b>	Technical Support: 1800 812 864
<b>SDS History</b>	MSDS Review: August 2004. MSDS Supersedes: December 1998. ...End Of MSDS...