

Infosafe No™ LPSY4	Issue Date : January 2011	ISSUED by PARCHEMD
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Product Name **FOSROC CONSTRUCTION ADHESIVE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	FOSROC CONSTRUCTION ADHESIVE
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 Number	Tel: 02 4350 5000 Fax: 02 4351 2024
Recommended Use	A solvent based, general purpose, gunnable construction adhesive.
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	<p>Australia: Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC). Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p>New Zealand: Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.</p> <p>HSNO Classification: 3.1B - Flammable liquid: high hazard 6.1E (Oral) - Substance that is acutely toxic 6.3B - Substance that is mildly irritating to the skin 6.4A - Substance that is irritating to the eyes 6.9A (Repeated exposure) - Substance that is toxic to human target organs or systems 9.1B - Substance that is ecotoxic in the aquatic environment 9.3C - Substance that is harmful to terrestrial vertebrates</p> <p>Hazard statement codes: H225 Highly flammable liquid and vapour. H303 May be harmful if swallowed. H316 Causes mild skin irritation. H319 Causes serious eye irritation.</p>
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H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic 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.
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.
P210 Keep away from heat/sparks/open flames/hot surfaces.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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.

Precautionary statement codes - Response:

P101* If medical advice is needed, have product container or label at hand.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.
P391 Collect spillage.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313 If skin irritation occurs: Get medical advice/ attention.

Precautionary statement codes - Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

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.

Risk Phrase(s)

R11 Highly flammable.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s)

R67 Vapours may cause drowsiness and dizziness
S16 Keep away from sources of ignition - No smoking.
S23(2) Do not breathe vapour.
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S38 If insufficient ventilation, wear suitable respiratory equipment.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	n-Heptane	142-82-5	<10 %

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Ingredients	Name	CAS	Proportion
	Cyclohexane	110-82-7	5-10 %
	Methylcyclohexane	108-87-2	<5 %
	n-Hexane	110-54-3	<5 %
	Other ingredients determined not to be hazardous		Balance

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	If swallowed, do NOT induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
First Aid Facilities	Eyewash and normal washroom facilities.
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

Suitable Extinguishing Media	Use carbon dioxide, dry chemical, foam, water mist or water spray.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific Hazards	Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
Hazchem Code	•3Y
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.
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Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. 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 applicable local and national regulations.

Storage Temperatures

26°C.

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:

Substance	TWA		STEL		NOTES
	ppm	mg/m ³	ppm	mg/m ³	
n-Hexane	20	72	-	-	-
Cyclohexane	100	350	300	1050	-
Methylcyclohexane	400	1610	-	-	-
n-Heptane	400	1640	500	2050	-

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

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
n-Hexane	20	72	-	-	-
Heptane	400	1,640	500	2,050	-
Cyclohexane	100	350	300	1050	-
Methylcyclohexane	400	1610	-	-	-

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 sufficient ventilation to keep airborne levels below the exposure limits. 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.

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 or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear impervious gloves conforming to AS/NZS 2161: Occupational protective gloves. Laminated film and nitrile gloves offer good protection for prolonged

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Body Protection

contact with the material. Consult glove suppliers to determine other appropriate glove types and, if necessary, test gloves before use. Suitable work wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige thixotropic paste.
Odour	Aromatic.
Melting Point	Not available.
Boiling Point	Not available.
Solubility in Water	Not available.
Specific Gravity	1.35-1.45.
pH Value	Not available.
Vapour Pressure	Not available.
Vapour Density (Air=1)	Not available.
Viscosity	600,000 - 1,000,000 cps.
Flash Point	<10°C.
Flammability	Highly flammable.
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.
Conditions to Avoid	Extremes of temperature and direct sunlight. Heat and other sources of ignition.
Incompatible Materials	Strong acids and strong oxidising agents.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide and oxides of nitrogen.
Hazardous Reactions	Will react with incompatibles.
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 n-Hexane: LD50 (Rat, Oral): 25000 mg/kg LC50 (Rat, Inhalation): 48000 ppm/4h Eye Irritation (Standard Draize Test, Rabbit, 10 mg): Mild Irritation For Cyclohexane: LD50 (Rat, Oral): 12705 mg/kg For n-Heptane: LD50 (Rat, Inhalation): 10300 mg/kg
Inhalation	May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, drowsiness nausea and vomiting.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

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Skin	Irritating to skin. Skin contact will cause redness, itching and swelling.
Eye	May be irritating to eyes. The symptoms may include redness, itching and tearing.
Chronic Effects	Prolonged or repeated skin contact may cause defatting leading to dermatitis. Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches.

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.
Environ. Protection	Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	<p>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, flammable 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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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14. TRANSPORT INFORMATION

Transport Information	<p>Road and Rail Transport (ADG Code): This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:</p> <ul style="list-style-type: none"> - Class 1, Explosives - Division 2.1, Flammable Gases, (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.) - Division 2.3, Toxic Gases - Division 4.2 Spontaneously Combustible Substances - Division 5.1 Oxidising Agents and Division 5.2, Organic Peroxides - Class 6 Toxic or Infectious Substances (where the flammable liquid is nitromethane) - Class 7 Radioactive Substances.
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This material is classified as a Class 3 - Flammable Liquid 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 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 4.2, Spontaneously combustible substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides or
- Class 7, Radioactive materials unless specifically exempted.

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

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

Class: 3

Packaging Group: III

EmS: F-E,S-D

Marine Pollutant: No

UN-No: 1133

Label: 3

Special Provisions: 223 955

Proper Shipping Name: ADHESIVES

Air Transport:

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

Class: 3

Packaging Group: III

Packaging Instructions (cargo): 366

Packaging Instructions (passenger): 355

UN-No: 1133

Label: 3

Proper Shipping Name: ADHESIVES

U.N. Number

1133

Proper Shipping Name

ADHESIVES

DG Class

3

Hazchem Code

•3Y

Packing Group

III

EPG Number

3A1

IERG Number

14

IMDG Marine Pollutant (MP)

This product has been classified as a marine pollutant according to IMDG.

15. REGULATORY INFORMATION

Regulatory Information

Australia:

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

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

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National and or International Regulatory Information	New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted. Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2006
HSNO Approval Number	HSR002662
Hazard Category	Irritant, Highly Flammable, Dangerous for the environment
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Reviewed: January 2011 Supersedes: March 2010 SDS amendment: August 2012 SECTION 14: Transport information
Contact Person/Point	Technical Support: 1800 812 864 ...End Of MSDS...

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