

Infosafe No™ LPTAQ

Issue Date : January 2011

ISSUED by PARCHEMD

Product Name : **FOSROC FLAMEX PU**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name FOSROC FLAMEX PU

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 Single component, fire rated, elastic weatherproof sealant.

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, Australia (NOHSC).
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 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.

HSNO Classification:
3.1C - Flammable liquids: medium hazard
6.1E (Oral) - Substance that is acutely toxic
6.3B - Substance that is mildly irritating to the skin
6.5A - Substance that is a respiratory sensitiser
6.5B - Substance that is a contact sensitiser
6.7B - Substance that is a suspected human carcinogen
6.8B - Substance that is suspected to be a human reproductive or developmental toxicant
6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems
9.1A - Substance that is very ecotoxic in the aquatic environment

Hazard statement codes:

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H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

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.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P285 In case of inadequate ventilation wear respiratory protection.* *Specify appropriate type of equipment

Precautionary statement codes - Response:

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.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P370+P378 In case of fire: Use foam, carbon dioxide and dry chemical.
P304+P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P391 Collect spillage.
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.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statement codes - Storage:

P405 Store locked up.
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

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Risk Phrase(s)	<p>avoided. See Section 13 for disposal details. Classified as hazardous R10 Flammable. R20 Harmful by inhalation. R42 May cause sensitization by inhalation. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61(2) May cause harm to the unborn child R62 Possible risk of impaired fertility.</p>
Safety Phrase(s)	<p>S23 Do not breathe gas/fumes/vapour/spray S38 If insufficient ventilation, wear suitable respiratory equipment. S45 In case of accident or if you feel unwell seek medical advice immediately S53 Avoid exposure - obtain special instructions before use. S61 Avoid release to the environment. Refer to special instructions/safety data sheet.</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Benzyl butyl phthalate	85-68-7	10-30 %		
	Toluene	108-88-3	0-<5 %	Xn, F	R11, R20
	Toluene Diisocyanate	26471-62-5	0-<1 %		
	Ingredients determined not to be hazardous.		Balance		

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms persist or develop seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop 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 off completely. 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	Water spray, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide, carbon dioxide and traces of isocyanates.
Specific Hazards	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 full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to cool down heat-exposed containers
Unsuitable Extinguishing Media	Water jet

6. ACCIDENTAL RELEASE MEASURES



Material Safety Data Sheet

CS: 1.4.92

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Emergency Procedures Increase ventilation. Evacuate all unprotected personnel. 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. 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. 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.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with adequate ventilation. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers closed when not in use. Take precautionary measures against static discharges. Keep material away from sparks, flames and other ignition sources. 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.

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.

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		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Toluene	50	191	150	574	Sk
Toluene diisocyanate	-	0.02	-	0.07	Sen

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

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Toluene	50	191	150	574	
Toluene diisocyanate	-	0.02	-	0.07	

TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working 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.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

'Sen' Notice: The substance may cause sensitisation by skin contact or by inhalation

Biological Limit Values Biological Exposure Indices (BEI) from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows:

Determinant	Sampling Time	Biological Exposure
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Indice (BEI)		
TOLUENE [108-88-3]		
o-Cresol in urine	End of shift	0.5mg/L
Hippuric acid in urine	End of shift	1.6g/g creatinine
Toluene in blood	Prior to last shift of work week	0.05mg/L

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 mists are generated, then respiratory protective equipment with suitable vapour filter should be used. Final choice of appropriate breathing protection is dependant 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.
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended where splashing is possible. 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 to prevent skin contact. 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 is recommended. Chemical resistant apron should be worn where clothing is likely to be contaminated. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grey paste
Odour	Slight aromatic odour
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Insoluble
Specific Gravity	1.56
pH Value	Not applicable
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Volatile Component	3.5%
Flash Point	43.3°C (Tag Closed Cup)
Flammability	Flammable liquid
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Extremes of temperature, direct sunlight, open flames or other sources of ignition and moisture.
Incompatible Materials	Alcohols, amines, strong bases and surface active materials.
Hazardous Decomposition Products	Thermal decomposition of this product may result in the release of toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide, carbon dioxide and traces of isocyanates.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this material. The available toxicity data for the ingredients are as follows: For Toluene: LD50 (Oral, Rat): 636 mg/kg LC50 (Inhalation, Rat): 49 g/m ³ /4h For Benzyl Butyl phthalate: LD50 (Oral, Rat): 2330 mg/kg LD50 (Dermal, Rabbit): > 10 g/kg For Toluene Diisocyanate: LD50 (Oral, Rat): 4130 mg/kg
Inhalation	Harmful by inhalation. Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. Inhalation may cause sensitisation, and asthma-like symptoms in some individuals.
Ingestion	Ingestion of this product may cause irritation to the mouth, throat and stomach with symptoms of nausea, vomiting and diarrhoea.
Skin	May be irritating to skin. The symptoms may include redness, itching and swelling.
Eye	May be irritating to eyes. The symptoms may include redness, itching and tearing.
Chronic Effects	Prolonged or repeated exposure through inhalation of vapours/fumes may lead to sensitisation and occupational asthma.
Reproductive Toxicity	May cause harm to the unborn child. This product is classified by NOHSC as Toxic to reproduction Category 2 (substances that should be regarded as if they cause developmental toxicity) Possible risk of impaired fertility . This product is classified by NOHSC as Toxic to reproduction Category 3 : - substances that cause concern for human fertility

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	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, 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
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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 Information

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:

- 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.

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

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: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE)

Class: 3

Packaging Group: III

EmS: F-E, S-D

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Label: 3

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: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (CONTAINS TOLUENE)

Class: 3

Packaging Group: III

Label: Flammable Liquid

Packaging Instructions (passenger & cargo): 305

Packaging Instructions (cargo): 307

1993

U.N. Number**Proper Shipping Name**

FLAMMABLE LIQUID, N.O.S. - (CONTAINS TOLUENE)

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

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, Toxic [6.7]) Group Standard 2006

HSR002669

HSNO Approval Number Hazard Category

Toxic, Dangerous for the environment

16. OTHER INFORMATION

Date of preparation or last revision of MSDS

MSDS Reviewed: January 2011

MSDS supersedes: March 2009

Minor Amendment: September 2010

Contact Person/Point

Technical Support: 1800 812 864

...End Of MSDS...

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