

Infosafe No™ LPXS6

Issue Date : September 2013

ISSUED by PARCHEMN

Product Name : FOSROC PRIMER 21

1. Identification

GHS Product Identifier FOSROC PRIMER 21

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

Address 7 Lucca Road Wyong
NSW 2259 Australia

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

Emergency phone number 0800 154 666 (available 24/7)

Recommended use of the chemical and restrictions on use A primer to promote adhesion of polyurethane sealants to porous surfaces.

Other Information Distributed in New Zealand by:
Concrete Plus
23 Watts Road
Sockburn
New Zealand
Tel: (03) 343 0090
Fax: (03) 343 0202

This SDS 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.co.nz

2. Hazard Identification

GHS classification of the substance/mixture 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 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

3.1C - Flammable liquids: medium hazard
6.1D (Inhalation - vapours, dusts or mists) - Substance that is acutely toxic
6.3A - Substance that is irritating to the skin
6.4A - Substance that is irritating to the eyes
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 (Single exposure) - Substance that is harmful to human target organs or systems
9.1D - Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action

Signal Word (s) Danger

Hazard Statement (s) H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

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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.
H371 May cause damage to organs.
H401 Toxic to aquatic life.
Exclamation mark, Flame, Health hazard

Pictogram (s)



Precautionary statement – Prevention

P102 Keep out of reach of children.
P103 Read label before use.
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. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe fume/gas/mist/vapours/spray.
P264 Wash hands and skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection.
P281 Use personal protective equipment as required.
P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement – Response

GENERAL
P101 If medical advice is needed, have product container or label at hand.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
INHALATION
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P331 Do NOT induce vomiting.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
SKIN
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
EYE
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.

Precautionary statement – Storage
Precautionary statement – Disposal

OTHER
P370+P378 In case of fire: Use foam, water fog, water spray, carbon dioxide or dry chemical powder for extinction.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 In the case of a substance that is in compliance with a HSN0 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.

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3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Butyl Acetate	123-86-4	30-60 %
	Benzene, 2,4-diisocyanato-1-meth yl-, polymer with 1,6-diisocyanatohexane	26426-91-5	30-60 %
	Ethylbenzene	100-41-4	<5 %
	Xylene	1330-20-7	<10 %
	Toluene-2,4-diisocyanat e	584-84-9	<1 %
	1,6-Hexamethylene Diisocyanate	822-06-0	<1 %
	Ingredients determined not to be hazardous		To 100%

4. First-aid measures

Inhalation	If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Rinse mouth and lips thoroughly with water. Do not induce vomiting. Seek immediate medical attention.
Skin	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.
First Aid Facilities	Eye wash station 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	Foam, water fog, water spray, carbon dioxide or dry chemical powder.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and nitrogen oxides.
Specific hazards arising from the chemical	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
Decomposition Temp.	Not available
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. Prevent spillage from entering drains or water courses. Keep containers cool with water spray.

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 and
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waste management authorities in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact, and inhalation of vapours when mixing and handling. Wear overalls, impervious gloves and approved respirator. Use in designated areas with adequate ventilation. Use approved flammable liquid storage containers in the work area. Electrical equipment must be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. 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. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated area away from sources of heat and ignition. Store away from strong oxidising agents, amines and alcohols. Containers which are opened must be carefully resealed and kept upright to prevent leakage and reaction with moisture. Keep containers closed at all times - check regularly for 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. Reference should also be made to any applicable national and local regulations.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure value assigned for this material by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below:
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New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Isocyanates (as -NCO)	-	0.02	-	0.07	Sen
Xylene	50	217	-	-	-
n-Butyl acetate	150	713	200	950	-
Ethylbenzene	100	434	125	543	-

Note: The values for isocyanates apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

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.

'Sen' Notice: The substance may cause sensitization 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:
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Determinant Indices (BEI)	Sampling Time	Biological Exposure
XYLENES [1330-20-7) Methylhippuric acids in urine	End of shift	1.5 g/g creatinine

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	ETHYL BENZENE [100-41-4] Sum of mandelic acid and phenylglyoxylic acid in urine	End of shift at end of workweek	0.7 g/g creatinine
Appropriate 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 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.		
Respiratory Protection	Positive pressure air supplied full face respirator is preferred for long term use. Cartridge filter mask complying with AS1716 for organic vapours is acceptable for short periods depending on risk assessment. The final choice of appropriate personal protection will vary according to individual circumstances. This can include methods of handling and engineering controls as determined by appropriate applicator risk assessment. 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, Viton, nitrile or other suitable gloves conforming to AS/NZS 2161: Occupational protective 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.		
Footwear	Antistatic footwear.		
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. Final choice of appropriate clothing will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.		

9. Physical and chemical properties

Appearance	Clear liquid
Colour	Slightly coloured
Odour	Aromatic
Decomposition Temperature	Not available
Melting Point	Not available
Boiling Point	125°C (initial)
Solubility in Water	Insoluble; reacts with water.
Solubility in Organic Solvents	Not available
Specific Gravity	1.07 at 23°C
pH	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	>1
Evaporation Rate	1.0 (Butyl acetate)
Odour Threshold	Not available

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Viscosity	2200 mPa.s at 23°C
Partition Coefficient: n-octanol/water	Not available
Flash Point	28°C (Closed Cup) (approximate)
Flammability	Flammable liquid
Auto-Ignition Temperature	440°C (approximate)
Flammable Limits - Lower	1.7% v/v (Butyl acetate)
Flammable Limits - Upper	7.6% v/v (Butyl acetate)

10. Stability and reactivity

Reactivity	Will react with incompatibles.
Chemical Stability	Stable under normal conditions of use and storage.
Conditions to Avoid	Heat, direct sunlight, open flames and other sources of ignition.
Incompatible Materials	Reacts with oxidizing agents. Exothermic reaction with amines and alcohols; reacts slowly with water liberating carbon dioxide.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.
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 given below.
Acute Toxicity - Oral	For n-Butyl acetate: LD50 (Oral, Rat): 14,000 mg/kg LD50 (Oral, Rat): 10,770 mg/kg
Acute Toxicity - Dermal	For Polymeric isocyanate: LD50 (Oral, Rat): 5,000 mg/kg For n-Butyl acetate: LD50 (Dermal, Rabbit): 17,600 mg/kg
Acute Toxicity - Inhalation	For n-Butyl acetate: LC50 (Inhalation, Rat): 2,000 ppm/4h
Ingestion	For Polymeric isocyanate: LC50 (Inhalation, Rat): >3,003 mg/m3/4h Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, drowsiness nausea and vomiting. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.
Eye	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.

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Carcinogenicity	Suspected of causing cancer. Xylene is listed as a Group 3: Not classifiable as to its carcinogenicity to humans according to International Agency for Research on Cancer (IARC). Ethylbenzene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	May cause damage to organs by inhalation or ingestion.
STOT-repeated exposure	Not available
Aspiration Hazard	Not expected to be an aspiration hazard.
Chronic Effects	Prolonged and repeated exposure through skin contact or inhalation of this material may result in harmful effects on the central nervous system. Chronic exposure can also cause damage to kidneys and liver. Repeated exposure may cause skin dryness and dermatitis.

12. Ecological information

Ecotoxicity	Toxic to aquatic life. The monomeric isocyanates, which form a very small part of this product, may be harmful to aquatic organisms with long term adverse effects. The resin (polymeric isocyanate) reacts with water forming polyurea, an insoluble solid.
Persistence and degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Do not allow product to enter drains, waterways or 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 flammable substance and therefore can be sent to an approved high temperature incineration plant for disposal. 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 EPA 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. 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

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Transport Information

This material is classified as Dangerous Goods Class 3 - Flammable Liquid according to NZS 5433:2012 Transport of Dangerous Goods on Land. Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Division 2.1, Flammable gases
- Division 2.3, Toxic gases
- Division 4.2, Spontaneously combustible substances
- Division 5.1, Oxidising substances
- Division 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:

- Division 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:

- Division 4.2, Spontaneously combustible substances
- Division 4.3, Dangerous when wet substances
- Division 5.1, Oxidising substances
- Division 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: 1866
 Proper Shipping Name: RESIN SOLUTION
 Class: 3
 Packaging Group: III
 EmS: F-E, S-E
 Special provisions: 223, 955
 Label: 3 (Flammable liquid)
 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: 1866
 Proper Shipping Name: RESIN SOLUTION
 Class: 3
 Packaging Group: III
 Label: 3 (Flammable liquid)
 Special provisions: A3
 Packaging Instructions (passenger & cargo): 355
 Packaging Instructions (cargo): 366
 1866

U.N. Number	1866
UN proper shipping name	RESIN SOLUTION
Transport hazard class(es)	3
Hazchem Code	•3Y
Packing Group	III
EPG Number	3A1
IERG Number	14
IMDG Marine pollutant	No

15. Regulatory information

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

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Chemicals (NZIoC) or exempted.
Group Standard:
Additives, Process Chemicals and Raw Materials (Flammable, Toxic [6.7]) Group
Standard 2006
HSR002502

**HSNO Approval
Number**

16. Other Information

**Date of preparation
or last revision of
SDS** SDS Reviewed: September 2013
Supersedes: October 2008

**Literature
References**

Workplace Exposure Standards and Biological Exposure Indices , Department of
Labour, Health & Safety.
Transport of Dangerous goods on land NZS 5433.
Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO
Act 1996 (HSNO CoP 8-1 09-06).
Assigning a hazardous substance to a group standard.
American Conference of Industrial Hygienists (ACGIH).

Contact Person/Point Technical Support: 1800 812 864

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