

Infosafe No™ LQ36B Issue Date : April 2014 ISSUED by PARCHEMN

Product Name : FOSROC DEKGUARD S

Classified as hazardous

1. Identification

GHS Product Identifier FOSROC DEKGUARD S

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 An aliphatic acrylic coating system for protection and enhancement of concrete structures.

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

Classification of the substance or 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
6.1E (Aspiration hazard 1) - Substance that is acutely toxic
6.3A - Substance that is irritating to the skin
6.4A - Substance that is irritating to the eyes
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
9.1B - Substance that is ecotoxic in the aquatic environment

Signal Word (s) Danger

Hazard Statement (s) H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H371 May cause damage to organs.
H411 Toxic to aquatic life with long lasting effects.

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Pictogram (s)

Flame, Health hazard, Exclamation mark, Environment


Precautionary statement – Prevention

P102 Keep out of reach of children.
 P103 Read label 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 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.
 P280 Wear protective gloves/eye protection/face protection.
 P281 Use personal protective equipment as required.

Precautionary statement – Response

GENERAL
 P101 If medical advice is needed, have product container or label at hand.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 INGESTION
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P331 Do NOT induce vomiting.
 SKIN
 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.
 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.
 OTHER
 P370+P378 In case of fire: Use carbon dioxide, dry chemical or foam for extinction

**Precautionary statement – Storage
 Precautionary statement – Disposal**

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.

3. Composition/information on ingredients

Information on Composition Ingredients

Product contains 30-60% Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6) which is constituted by the below identified ingredients.

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
1,2,4-Trimethylbenzene	95-63-6	<20 %
Xylene	1330-20-7	<12.5 %
1,2,3-trimethylbenzene	526-73-8	<10 %
Propylbenzene	103-65-1	<10 %
Cumene	98-82-8	<10 %

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Ingredients	Name	CAS	Proportion
	1,3,5-Trimethylbenzene	108-67-8	<10 %
	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 and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. 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 eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eyewash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (0800 764 766)

5. Fire-fighting measures

Suitable extinguishing media	Use carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not available normal foam can be used.
Unsuitable Extinguishing Media	Do not use water jet.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
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 full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

6. Accidental release measures

Personal precautions, protective equipment and 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 waste management authorities in accordance with local regulations.
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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 local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is,
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Conditions for safe storage, including any incompatibilities

always wash hands before eating, drinking, smoking or using the toilet facilities.
 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, 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. Ensure that storage conditions comply with applicable local and national regulations. 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.

8. Exposure controls/personal protection

Occupational exposure limit values

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

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

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Cumene	25	125	75	375	Sk
Oil mist, mineral	-	5	-	10	-
Xylene	50	217	-	-	-

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.

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

Biological Limit Values

Name: XYLENE [1330-20-7]
 Determinant: Methylhippuric acids
 Specimen: Creatinine in urine
 Value: 1.5 g/g
 Sampling time: End of shift

Appropriate engineering controls

Source: American Conference of Industrial Hygienists (ACGIH)
 This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements. 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

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. 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, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material including laminated film, nitrile,

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neoprene. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Body Protection
9. Physical and chemical properties

Appearance	Viscous liquid
Colour	Pigmented
Odour	Aromatic hydrocarbon odour.
Decomposition Temperature	Not available
Melting Point	Not available
Boiling Point	150-185°C (for Solvent)
Solubility in Water	Insoluble
Specific Gravity	1.25 at 23°C
pH	Not available
Vapour Pressure	210-1300 Pa at 20°C (for Solvent)
Vapour Density (Air=1)	>4.3 (for Solvent)
Evaporation Rate	<1.0 (for Solvent) (n-Butyl acetate=1)
Odour Threshold	Not available
Volatile Component	Not available
Partition Coefficient: n-octanol/water	Not available
Flash Point	38-50°C (Closed cup IP 170) (for Solvent)
Flammability	Flammable liquid
Auto-Ignition Temperature	507°C (for Solvent)
Flammable Limits - Lower	0.6% v/v (for Solvent)
Flammable Limits - Upper	7.0% v/v (for Solvent)

10. Stability and reactivity

Reactivity	Refer to Sec 10: Possibility of hazardous reactions
Reactivity and Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, open flames and other sources of ignition.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

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Toxicology Information	No toxicity data available for this material. The available acute toxicity data for the ingredients are given below.
Acute Toxicity - Oral	For Solvent naphtha (petroleum), light aromatic: LD50 (Oral, Rat): >2,000 mg/kg For Xylene: LD50 (Oral, Rat): 4,300 mg/kg
Acute Toxicity - Dermal	For Solvent naphtha (petroleum), light aromatic: LD50 (Dermal, Rabbit): >2,000 mg/kg For Xylene: LD50 (Dermal, Rabbit): 4,500 mg/kg
Acute Toxicity - Inhalation	For Xylene: LC50 (Inhalation, Rat): 5,000 ppm/4h
Inhalation	May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Skin	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.
Eye	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
Respiratory sensitisation	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Skin Sensitisation	Not expected to be a respiratory sensitiser.
Germ cell mutagenicity	Not expected to be a skin sensitiser.
Carcinogenicity	Not considered to be a mutagenic hazard.
Reproductive Toxicity	Not considered to be a carcinogenic hazard.
STOT-single exposure	Xylene is listed as a Group 3 Carcinogen: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).
STOT-repeated exposure	Cumene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).
Aspiration Hazard	Suspected of damaging fertility or the unborn child.
Other Information	Not expected to cause toxicity to a specific target organ.
	May cause damage to organs through prolonged or repeated exposure by inhalation or ingestion.
	May be fatal if swallowed and enters airways.
	Prolonged or repeated skin contact may cause defatting leading to dermatitis. Prolonged or repeated exposure may also damage the blood organs, lungs, liver, kidneys and nervous system.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Do not discharge this material into waterways, drains and sewers.
Acute Toxicity - Fish	For Solvent naphtha (petroleum), light aromatic: Toxic: 1<LC50<10 mg/L

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Acute Toxicity - Daphnia For Solvent naphtha (petroleum), light aromatic:
Toxic: 1<EC50<10 mg/L

Acute Toxicity - Algae For Solvent naphtha (petroleum), light aromatic:
Toxic: 1<EC50<10 mg/L

13. Disposal considerations

Disposal Considerations Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld on or near empty containers. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.

14. Transport information

Transport Information Road and Rail:
This material is classified as Dangerous Goods Class 3 - Flammable Liquid
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.
Class/Division: 3
UN No: 1866
Proper Shipping Name: RESIN SOLUTION (Solvent naphtha (petroleum), light aromatic) MARINE POLLUTANT
Packing Group: III
EMS : F-E,S-E
Special Provisions: 223 955

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.
Class/Division: 3
UN No: 1866
Proper Shipping Name: Resin solution
Packing Group: III
Packaging Instructions (cargo only): 366
Packaging Instructions (passenger & cargo): 355
Hazard Label: Flammable liquid
Special Provisions: A3

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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	Yes

15. Regulatory information

National and or International Regulatory Information	Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
HSNO Approval Number	Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2006 HSR002662

16. Other Information

Date of preparation or last revision of SDS	SDS Created: April 2014
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). Technical Support: 1800 812 864
Contact Person/Point	...End Of MSDS...

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