

Infosafe No™ LQ3A9

Issue Date : May 2014

ISSUED by PARCHEMN

Product Name : FOSROC DUCTSEAL SB

Classified as hazardous

1. Identification

GHS Product Identifier	FOSROC DUCTSEAL SB
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 sealing compound designed for sealing lap joints in air-conditioning duct work. Also used for metal to metal joints.
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.
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HSNO Classification:

- 3.1B - Flammable liquid: high hazard
- 6.1D (Oral) - Substance that is acutely toxic
- 6.3A - Substance that is irritating to the skin
- 6.4A - Substance that is irritating to the eyes
- 6.5B - Substance that is a contact sensitiser
- 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
- 9.1B - Substance that is ecotoxic in the aquatic environment
- 9.3C - Substance that is harmful to terrestrial vertebrates

Signal Word (s)

Danger

Hazard Statement (s)

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure by

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 inhalation.
 H411 Toxic to aquatic life with long lasting effects.
 H433 Harmful to terrestrial vertebrates.
 Flame, Health hazard, Exclamation mark, Environment

Pictogram (s)

Precautionary statement – Prevention

 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.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe mist/vapours/spray.
 P264 Wash hands and skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 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.

Precautionary statement – Response

 GENERAL
 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+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P330 Rinse mouth.
 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.
 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

 OTHER
 P391 Collect spillage.
 P370+P378 In case of fire: Use foam, dry chemical powder or carbon dioxide for extinction.
 P405 Store locked up.

Precautionary statement – Disposal

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

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Toluene	108-88-3	10-30 %
	Acetone	67-64-1	<10 %
	Naphtha (petroleum), hydrotreated light	64742-49-0	<10 %

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Ingredients	Name	CAS	Proportion
	Rosin	8050-09-7	<1 %
	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	128-37-0	<1 %
	Zinc oxide	1314-13-2	<1 %
	Other ingredients determined not to be hazardous		Balance
Other Information	The component Naphtha (petroleum), hydrotreated light (CAS No. 64742-49-0) listed above consists of the following: Heptane (CAS No. 142-82-5), Cyclohexane (CAS No. 110-82-7), Methylcyclohexane (CAS No. 108-87-2), n-Hexane (CAS No. 110-54-3) and Octane (CAS No. 111-65-9).		

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. 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	Eye wash station, 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 including oxides of nitrogen, carbon monoxide and carbon dioxide.
Specific hazards arising from the chemical	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	•3YE
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. Water spray may be used to cool down heat-exposed material. If safe to do so, remove containers from path of fire. Do not allow run-off from fire fighting to enter drains or water courses.

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

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Precautions for Safe Handling

Wear appropriate personal protective equipment and clothing to prevent 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 tightly closed. 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. Avoid exposure. Do not handle until all safety precautions have been read and understood. It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

Conditions for safe storage, including any incompatibilities

Store in a well ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Take precautions against static electricity discharges. Use proper grounding procedures. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. 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. Reference should also be made to all applicable state and federal regulations.

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		NOTES
	ppm	mg/m ³	ppm	mg/m ³	
Phenol, 2,6-bis(1,1-di methylethyl)-4-methyl-	-	10	-	-	-
Toluene	50	188	-	-	-
Acetone	500	1185	1000	2375	-
Heptane	400	1640	500	2050	-
Cyclohexane	100	350	300	1050	-
Methylcyclohexane	400	1610	-	-	-
Hexane	20	72	-	-	-
Octane	300	1400	375	1750	-

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

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

Determinant	Sampling Time	Biological Exposure Indices (BEI)
TOLUENE [108-88-3]		
Toluene in urine	End of Shift	0.03 mg/L
Toluene in blood	Prior to last shift of work week	0.02 mg/L
o-Cresol with hydrolysis creatinine in urine	End of Shift	0.3 mg/g

ACETONE [67-64-1]		
Acetone in urine	End of shift	50 mg/L

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	HEXANE [110-54-3] 2,5-Hexanedion, without hydrolysis in Urine		End of shift at end of work week.		0.4 mg/l
Appropriate engineering controls	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 2430.3.1:2004: 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. 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. When large quantities are handled the use of plastic aprons and rubber boots is recommended.				

9. Physical and chemical properties

Appearance	Paste
Colour	Silver pigmented
Odour	Hydrocarbon solvent odour.
Decomposition Temperature	Not available
Melting Point	Not available
Boiling Point	56°C (initial boiling point)
Solubility in Water	Insoluble
Specific Gravity	1.10 (23°C)
pH	Not available
Vapour Pressure	85 mmHg (25°C) (estimated)
Vapour Density (Air=1)	3.2 (Toluene)
Evaporation Rate	2.4 (n-Butyl acetate=1) (Toluene)
Odour Threshold	Not available
Viscosity	Not available
Volatile Component	46% w/w
Partition Coefficient: n-octanol/water	Not available
Flash Point	-18°C
Flammability	Highly flammable liquid.

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Auto-Ignition Temperature	Not available
Flammable Limits - Lower	1.0% by volume (Toluene)
Flammable Limits - Upper	7.1% by volume (Toluene)

10. Stability and reactivity

Reactivity	Will react with incompatible materials.
Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No toxicity data available for this material. The available acute toxicity data for the ingredient/s is/are given below.
Acute Toxicity - Oral	For Toluene: LD50 (Oral, Rat): 5000-7530 mg/kg LD50 (Rat, Oral): >3200 mg/kg For n-Heptane: LD50 (Oral, Rat) > 2,000 mg/kg
Acute Toxicity - Inhalation	For Toluene: LC50 (Inhalation, Rat): 49 g/m ³ /4h LC50 (Inhalation, Mouse): 400 ppm/24h
Ingestion	Harmful if swallowed. Ingestion of this product may irritate the gastric tract causing nausea, vomiting, abdominal pain and CNS depression with symptoms including dizziness, drowsiness, confusion and possible unconsciousness.
Inhalation	Vapours may cause drowsiness and dizziness. The vapours may be irritating to the respiratory system. The symptoms of inhalation of high concentrations of solvent vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression characterised by headache and dizziness; and increased reaction time, fatigue and loss of coordination. If exposure to highly concentrated solvent vapours is prolonged this may lead to narcosis, unconsciousness, even coma and possible death.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Prolonged or repeated skin contact may cause defatting leading to drying and cracking of skin, and 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	Not expected to be a respiratory sensitiser.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard. Toluene and Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- are listed as Group 3: Not classifiable as to its carcinogenicity to humans according to International Agency for Research on Cancer (IARC).
Reproductive Toxicity	Suspected of damaging fertility or the unborn child. Classified as a suspected human reproductive or developmental toxicant.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure by inhalation.

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Aspiration Hazard Not expected to be an aspiration hazard.**Other Information** Chronic exposure may cause damage to the central nervous system, blood organs, optic nerve, heart, liver and kidneys.**12. Ecological information****Ecotoxicity** Toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.**Persistence and degradability** Not available**Mobility** Not available**Bioaccumulative Potential** Not available**Environmental Protection** Do not discharge this material into 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 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 be followed, and the precautions given in Section 7 of this SDS regarding handling must also be 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 EPA 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:
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:

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- 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.: 1133

Proper Shipping Name: ADHESIVES containing flammable liquid (Heptane, Cyclohexane) MARINE POLLUTANT

Class: 3

Packaging Group: II

EMS No.: F-E, S-D

Special Provision(s): -

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.: 1133

Proper Shipping Name: ADHESIVES containing flammable liquid

Class: 3

Packaging Group: II

Hazard Label: Flammable liquid

Packaging Instructions (passenger & cargo): 353

Packaging Instructions (cargo only): 364

Special Provision(s): A3

U.N. Number 1133

UN proper shipping name ADHESIVES

Transport hazard class(es) 3

Hazchem Code •3YE

Packing Group II

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.

Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2006

HSNO Approval Number HSR002662

16. Other Information

Date of preparation or last revision of SDS SDS Created: May 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).

Contact Person/Point Technical Support: 1800 812 864

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