

Infosafe No™ LQ36Z	Issue Date : April 2014	ISSUED by PARCHEMC
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Product Name : **FOSROC POLYUREA WCS GUN GRADE PART A**

Classified as hazardous

1. Identification

GHS Product Identifier	FOSROC POLYUREA WCS GUN GRADE PART A
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	1800 638 556 (available 24/7)
Recommended use of the chemical and restrictions on use	Base component of two-part protective coating.
Other Information	<p>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.</p> <p>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.</p> <p>www.parchem.com.au</p>

2. Hazard Identification

Classification of the substance or mixture	<p>Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.</p> <p>Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)</p> <p>Acute Toxicity - Inhalation: Category 4 Skin Corrosion/irritation, Category 2 Serious eye damage/irritation, Category 2 Sensitization - Respiratory: Category 1A Skin Sensitiser, Category 1 Carcinogenicity: Category 2 STOT Single Exposure Category 3 (respiratory tract irritation) STOT Repeated Exposure Category 2</p>
Signal Word (s)	Danger
Hazard Statement (s)	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
Pictogram (s)	Exclamation mark, Health hazard



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Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. 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.
Precautionary statement – Response	GENERAL P308+P313 IF exposed or concerned: Get medical advice/ attention. INHALATION P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P312 Call a POISON CENTER or doctor/physician if you feel unwell.
Precautionary statement – Storage	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 – Disposal	SKIN P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before re-use. P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Supplemental information	P501 Dispose of contents/container to an approved waste disposal plant. The information under this heading is not mandatory under WHS Regulations. It is provided as information on other GHS hazard classes and categories and/or environmental hazards that are outside the scope of the WHS Regulations. H411 Toxic to aquatic life with long lasting effects.

3. Composition/information on ingredients

Chemical Characterization Ingredients	Name	CAS	Proportion
	Liquid		
	Dipropylene glycol dibenzoate	27138-31-4	30-60 %
	Diphenyl methane-2,4'-diisocyanate	5873-54-1	10-30 %
	Methylenediphenylene isocyanate, polypropylene glycol polymer	39420-98-9	10-30 %
	Benzene, 1,1'-methylenebis[isocyanato-, polymer with 1,2-ethanediamine, methyloxirane and oxirane]	Proprietary	10-30 %
	Diphenylmethane-4,4'-diisocyanate	101-68-8	10-30 %

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 medical attention.

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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. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eye wash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

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 and gases including isocyanates, hydrogen cyanide, carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific hazards arising from the chemical	Combustible. This product will readily burn under fire conditions.
Hazchem Code	•3Z
Decomposition Temp.	Not available
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. 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	Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Store away from acids. alkalis. amines and water. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. 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.

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8. Exposure controls/personal protection

Occupational exposure limit values No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Safe Work, Australia Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Isocyanates, all (as NCO)	-	0.02	-	0.07	Sen

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 sensitisation by skin contact or by inhalation

Biological Limit Values No biological limits allocated.

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.

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 gloves of impervious material such as butyl rubber. 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 work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. Physical and chemical properties

Form	Liquid
Appearance	Yellowish liquid
Colour	Yellowish
Odour	Musty (mouldy)
Decomposition Temperature	Not available
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Immiscible with water
Specific Gravity	1.10-1.14 (20°C)

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pH	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	500 - 900mPas (25°C)
Partition Coefficient: n-octanol/water	Not available
Flash Point	Not available
Flammability	Not flammable
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available
Oxidising Properties	Does not meet the criteria for oxidising

10. Stability and reactivity

Reactivity	Reacts with incompatibles.
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, flames and other ignition sources. Avoid contact with: acids. alkalis. amines. alcohols, glycols and water.
Incompatible Materials	Oxidising agents, acids. alkalis. amines. alcohols, glycols and water
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes and gases including isocyanates, hydrogen cyanide, carbon monoxide, carbon dioxide and oxides of nitrogen.
Possibility of hazardous reactions	Reaction with: Alkalis. Acids. Amines. Alcohols, glycols.

11. Toxicological Information

Toxicology Information	The available toxicity data for material given below.
Acute Toxicity - Oral	Diphenylmethane-4,4'-diisocyanate [101-68-8] LD50 (rat): >5000mg/kg Dipropylene glycol dibenzoate [27138-31-4] LD50 (rat): >2500mg/kg
Acute Toxicity - Dermal	Diphenylmethane-4,4'-diisocyanate [101-68-8] LD50 (rabbit): >9000mg/kg Diphenyl methane-2,4'-diisocyanate [5873-54-1] LD50 (rabbit): >9400mg/kg Dipropylene glycol dibenzoate [27138-31-4] LD50 (rabbit): >2000mg/kg
Acute Toxicity - Inhalation	Diphenylmethane-4,4'-diisocyanate [101-68-8] LC50 (rat): 0.49mg/1/4h (vapour) Diphenyl methane-2,4'-diisocyanate [5873-54-1] LC50 (rat): 0.49mg/1/4h (vapour) Dipropylene glycol dibenzoate [27138-31-4] LC50 (rat): >200mg/1/4h (vapour)
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling.

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Eye	Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction. 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.
Carcinogenicity	Suspected of causing cancer. Classified as a suspected human carcinogen. Diphenylmethane-4,4'-diisocyanate is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	Not expected to be an aspiration hazard.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	Not available
Mobility	The product is insoluble in water.
Bioaccumulative Potential	Dipropylene glycol dibenzoate [27138-31-4] Partition coefficient: 3.9
Other Adverse Effects	Not available
Environmental Protection	Do not discharge this material into waterways, drains and sewers.
Acute Toxicity - Fish	Diphenyl methane-2,4'-diisocyanate [5873-54-1] LC50 (fish): >1000mg/l/96h Dipropylene glycol dibenzoate [27138-31-4] LC50 (Pimephales promelas (Fat-head Minnow)): 3.7mg/l/96h
Acute Toxicity - Daphnia	Diphenylmethane-4,4'-diisocyanate [101-68-8] EC50 (daphnia): 0.35mg/l/48h Diphenyl methane-2,4'-diisocyanate [5873-54-1] EC50 (daphnia): >1000mg/l/48h Dipropylene glycol dibenzoate [27138-31-4] EC50 (daphnia): 19.3mg/l/48h
Acute Toxicity - Algae	Diphenylmethane-4,4'-diisocyanate [101-68-8] IC50 (alga): 1.5mg/l/72h Dipropylene glycol dibenzoate [27138-31-4] IC50 (alga): 15mg/l/72h

13. Disposal considerations

Disposal Considerations	Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
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14. Transport information

Transport Information	Road and Rail Transport: This material is classified as a Class 9 Miscellaneous Dangerous Goods dangerous Goods. Class 9 Dangerous Goods are incompatible in a placard load with any of the following: - - Class 1, Explosives (when the class 9 substance is a fire risk substance),
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- Division 5.1, Oxidizing agents (when the class 9 substance is a fire risk substance), and
- Division 5.2, Organic peroxides (when the class 9 substance is a fire risk substance).

Note: Special Provision AU01

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;
 (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or
 (b) IBCs.

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.: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Contains Dipropylene glycol dibenzoate) MARINE POLLUTANT

DG Class: 9

Packaging Group: III

EMS No.: F-A, S-F

Special provisions: 274, 335

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: 3082

Proper Shipping Name: : Environmentally hazardous substance, liquid, n.o.s.
 (Contains Dipropylene glycol dibenzoate)

Class: 9

Packing Group: III

Hazard Label: Miscellaneous

Packing Instruction: 964 (For passenger and cargo aircraft)

Packing Instruction: 964 (For cargo aircraft only)

Special provisions: A97, A158

3082

U.N. Number

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Dipropylene glycol dibenzoate)

Transport hazard class(es) 9

Hazchem Code •3Z

Packing Group III

EPG Number 9C1

IERG Number 47

IMDG Marine pollutant Yes

15. Regulatory information

Regulatory Information Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule S6

AICS (Australia) All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

16. Other Information

Date of preparation or last revision of SDS SDS created: April 2014

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**Literature
References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited
carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants, Safe work Australia.
American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point

Technical Support: 1800 812 864

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