

Infosafe No™ LPW9B

Issue Date : February 2012

ISSUED by PARCHEMC

Product Name : **MASTERSHIELD UA20 PART B**

Classified as hazardous

1. Identification

GHS Product Identifier	MASTERSHIELD UA20 PART B
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	Part of a two pack urethane coating
Other Information	<p>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.</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

GHS classification of the substance/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>Flammable liquid, Category 3</p> <p>Acute toxicity - Inhalation, Category 4</p> <p>Acute toxicity - Dermal, Category 4</p> <p>Skin Corrosion/irritation, Category 2</p> <p>Skin Sensitiser, Category 1</p>
Signal Word (s)	Warning
Hazard Statement (s)	<p>H226 Flammable liquid and vapour.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H332 Harmful if inhaled</p>
Pictogram (s)	Flame, Exclamation mark,



Precautionary statement – Prevention	<p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P104 Read Safety Data Sheet before use.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ventilating/lighting/equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p>
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Precautionary statement – Response

P261 Avoid breathing 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.

P101 If medical advice is needed, have product container or label at hand.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P370+P378 In case of fire: use dry chemical powder, carbon dioxide or foam.
 INGESTION

P331 Do NOT induce vomiting.
 SKIN

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.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before re-use.

INHALATION

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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

Precautionary statement – Storage
Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Hexamethylene Diisocyanate Homopolymer	28182-81-2	60-<100 %
	Xylene	1330-20-7	10-<20 %
	2-methoxy-1-methylethyl acetate	108-65-6	10-<20 %
	Ethyl benzene	100-41-4	0-<3 %
	Hexamethylene diisocyanate	822-06-0	0-<0.3 %
	Ingredients determined not to be hazardous.		Balance

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	If swallowed, do NOT induce vomiting. Wash out mouth with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash 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. If symptoms develop and persist seek medical attention.
First Aid Facilities	Eye wash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical powder, carbon dioxide or foam.
Unsuitable Extinguishing Media	DO NOT USE water jets.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, isocyanates and oxides of nitrogen.

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Specific hazards arising from the chemical This product is flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. 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 keep fire exposed containers cool.

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. Spillage is slippery. 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.

7. Handling and storage

Precautions for Safe Handling Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of sprays, vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. Wear appropriate protection. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Always keep in containers made of the same material as the supply container. 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 State and Federal regulations.

8. Exposure controls/personal protection

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

Safework, Australia Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Isocyanates, all (as NCO)	-	0.02	-	0.07	Sen
Xylene	80	350	150	655	-
Ethyl benzene	100	434	125	543	-
2-Methoxy-1-methylethyl acetate	50	274	100	548	Sk

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

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Biological Limit Values	<p>inhalation.</p> <p>'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. Biological Exposure Indice BEI from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows</p> <p>Name: Xylenes Determinant: Methylhippuric acids Specimen: Creatinine in urine. Value: 1.5 g/g Sampling time: end of shift.</p>
Appropriate engineering controls	<p>Name: Ethyl benzene Determinant: Sum of mandelic acid and phenyl glyoxylic acid. Specimen: Creatinine in urine. Value: 0.7 g/g Sampling time: End of shift at end of work week.</p> <p>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.</p>
Respiratory Protection	<p>If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist 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.</p>
Eye Protection	<p>Safety glasses with side shields or face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances ie. 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.</p>
Hand Protection	<p>Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances ie. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.</p>
Body Protection	<p>Suitable workwear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.</p>

9. Physical and chemical properties

Appearance	Clear colourless to pale yellow liquid
Odour	Aromatic odour
Melting Point	Not available
Boiling Point	139°C
Solubility in Water	Reacts with water
Solubility in Organic Solvents	Soluble in ketones, esters, chlorinated solvents and aromatic hydrocarbons.
Specific Gravity	1.07 @23°C
pH	Not applicable
Vapour Pressure	5.3 hPa @20°C
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available

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Partition Coefficient: n-octanol/water	Not available
Flash Point	38°C (Closed cup)
Flammability	Flammable
Auto-Ignition Temperature	425°C
Flammable Limits - Lower	1.7%
Flammable Limits - Upper	7.6%
Dynamic Viscosity	Approx. 250 mPa.s @25°C

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and other ignition sources.
Incompatible Materials	Alcohols, amines, bases, water and aqueous solutions.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, isocyanates and oxides of nitrogen.
Possibility of hazardous reactions	Reacts with incompatibles with a great release of Carbon dioxide, and hence a risk of a pressure build-up in confined areas and formation of an insoluble solid precipitate.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No toxicology data available for this product.
Inhalation	Harmful by inhalation. Irritating to the respiratory tract. Breathing in vapour can cause headaches, drowsiness, dizziness, possible nausea and central nervous system depression. Can lead to loss of co-ordination, impaired judgment, unconsciousness.
Ingestion	Ingestion may cause nausea, vomiting and CNS depression with symptoms including drowsiness, dizziness, weakness, fatigue, headache, confusion and possible unconsciousness.
Skin	Harmful in contact with skin. Irritating to skin resulting in redness and itching. Prolonged or repeated skin contact may cause dermatitis due to defatting effect.
Eye	May cause irritation in contact with eyes. Symptoms may include redness, excessive tearing, stinging and swelling.
Reproductive Toxicity	Not considered to be toxic to reproduction.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Skin Sensitisation	May cause an allergic skin reaction.
Aspiration Hazard	Not expected to be an aspiration hazard. However breathing in vomit may lead to aspiration pneumonia.
STOT-single exposure	Not expected to cause damage to organs.
STOT-repeated exposure	Not expected to cause damage to organs.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.

12. Ecological information

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Ecotoxicity	No data available for this specific material.
Persistence and degradability	Product is not readily biodegradable
Mobility	Hexamethylene diisocyanate, homopolymer: Ultimate destination of the product: Soil and Sediment 2-Methoxy-1-methylethyl acetate: Ultimate destination of the product: Water Xylene: Ultimate destination of the product: Air
Bioaccumulative Potential	Hexamethylene diisocyanate, homopolymer: Not potentially bioaccumulable 2-Methoxy-1-methylethyl acetate: Not potentially bioaccumulable. (Unpublished reports) Xylene: Not bioaccumulable. (Published data)
Environmental Protection	Prevent this material entering waterways, drains and sewers.
Acute Toxicity - Fish	2-Methoxy-1-methylethyl acetate: LC50 (Pimephales promelas)/96h: >100 mg/l (Unpublished reports) Xylene: LC50 (Pimephales promelas)/96h: 13.4 mg/l (Published reports)
Acute Toxicity - Daphnia	Hexamethylene diisocyanate, homopolymer: EC50 (Daphnia magna)/24 h: >100% saturated aqueous solution. (Unpublished reports)

13. Disposal considerations

Disposal Considerations	Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations. Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld empty containers.
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14. Transport information

Transport Information	<p>Road and Rail Transport: 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:</p> <ul style="list-style-type: none">- 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. <p>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 No.: F-E, S-E</p> <p>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</p>
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U.N. Number	Label: Flammable Liquid Packaging Instructions (passenger & cargo): 355 Packaging Instructions (cargo only): 366 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

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
Poisons Schedule	Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). S6

16. Other Information

Date of preparation or last revision of SDS	SDS Reviewed: February 2012, Supersedes: March 2007
Contact Person/Point	Technical Support: 1800 812 864 ...End Of MSDS...

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