

Infosafe No™ LPXJN	Issue Date : February 2012	ISSUED by PARCHEMN
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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	0800 154 666 (available 24/7)
Recommended use of the chemical and restrictions on use	Part of a two pack urethane coating.
Other Information	Distributed in New Zealand by: Concrete Plus 23 Watts Road Sockburn New Zealand Tel: (03) 343 0090 Fax: (03) 343 0202

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.

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 New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land. 3.1C - Flammable liquids: medium hazard 6.1D (Dermal) - Substance that is acutely toxic 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 (Repeated exposure) - Substance that is harmful to human target organs or systems
Signal Word (s)	Danger
Hazard Statement (s)	H226 Flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure (ingestion and inhalation)
Flame, Health hazard, Exclamation mark,

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
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 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.

Precautionary statement – Response

P285 In case of inadequate ventilation wear respiratory protection.
P101 If medical advice is needed, have product container or label at hand.
P308+P313 IF EXPOSED or CONCERNED: Get medical advice/ attention.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use Foam, carbon dioxide or dry chemical powder.
INGESTION
P331 Do NOT induce vomiting.
INHALATION
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P304+P341 IF INHALED: If breathing is difficult, 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.

Precautionary statement – Storage
Precautionary statement – Disposal

EYES
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.
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.
P362 Take off contaminated clothing and wash before re-use.
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

Ingredients	Name	CAS	Proportion
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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-<0.5 %
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 mouth thoroughly with water. Seek medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Ensure contaminated clothing is washed before re-use 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 off 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, 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	Foam, carbon dioxide or dry chemical powder.
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.
Specific hazards arising from the chemical	Flammable liquid. 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 a fire hazard. Heating can cause expansion or decomposition leading to violent rupture of containers.
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. Use water spray to cool storage containers and tanks, pipelines and fire-exposed surfaces.

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.
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7. Handling and storage

Precautions for Safe Handling	Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. 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. Keep containers closed when not in use. Flameproof
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Conditions for safe storage, including any incompatibilities

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. Maintain a high level of personal hygiene when using the product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.
Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents, foodstuffs, 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. Have appropriate fire extinguishers available in and near the storage area. 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 Local, State and Federal regulations.

8. Exposure controls/personal protection

Occupational exposure limit values

No exposure standards have been established for this material by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, exposure standards for ingredients are stated below:

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

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Isocyanates, all (as -NCO)	-	0.02	-	0.07	Sen
Xylene	50	217	-	-	-
Ethyl benzene	100	434	125	543	-

Note: The above value 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 sensitisation 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

Name: Xylenes
Determinant: Methylhippuric acids
Specimen: Creatinine in urine.
Value: 1.5 g/g
Sampling time: end of shift.

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.

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

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

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Hand Protection	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. 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.
Body Protection	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.

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 at 23°C
pH	Not available
Vapour Pressure	5.3 hPa at 20°C
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Partition Coefficient: n-octanol/water	Not available
Flash Point	38°C (Closed cup)
Flammability	Flammable liquid.
Auto-Ignition Temperature	425°C
Flammable Limits - Lower	1.7% v/v
Flammable Limits - Upper	7.6% v/v
Dynamic Viscosity	Approx. 250 mPa.s @25°C

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials	Strong oxidising agents, alcohols, amines, bases, water and aqueous solutions.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes 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

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Toxicology Information	No toxicity data are available for this specific 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. Symptoms may include redness and itchiness. Repeated exposure may cause skin dryness and cracking, and may lead to dermatitis.
Eye	Irritating to eyes. Symptoms can include redness, tearing, stinging and swelling.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child
Carcinogenicity	Suspected of causing cancer
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	May cause damage to organs through prolonged or repeated exposure by ingestion and inhalation. May damage the blood organs, lungs, liver, kidneys and nervous system.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

12. Ecological information

Ecotoxicity	Not available
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	Do not allow product to enter drains, waterways or 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	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. It can be disposed by burning in an approved high temperature incineration facility; or
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alternatively, it can be reacted with the base component to enable it to cure to an inert solid that can be disposed in a licensed landfill facility. 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.

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 ERMA 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 Transport:

This material is classified as a Class 3 - Flammable Liquid according to NZS 5433:2007 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 No.: F-E, S-E

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: Flammable liquid

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U.N. Number	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 New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Group Standard: Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2006
HSNO Approval Number	HSR002669

16. Other Information

Date of preparation or last revision of SDS	SDS Reviewed: February 2012, Supersedes: August 2008
Contact Person/Point	Technical Support: 1800 812 864 ...End Of MSDS...

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