



Infosafe No™ LPXJN

Issue Date : August 2008

ISSUED by PARCHEMN

Product Name : **MASTERSHIELD UA20 PART B**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name MASTERSHIELD UA20 PART B

Company Name Parchem Construction Supplies Pty Ltd (ABN 80 069 961 968)

Address 7 Lucca Road Wyong
NSW 2259 Australia

Emergency Tel. 0800 154 666 (available 24/7)

Telephone/Fax Number Tel: 02 4350 5000
Fax: 02 4351 2024

Recommended 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. HAZARDS IDENTIFICATION

Hazard Classification New Zealand:
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.

HSNO Classification:

- 3.1C - Flammable Liquid: Medium Hazard.
- 6.1D - Substance that is acutely toxic by inhalation.
- 6.3A - Substance that is irritating to the skin.
- 6.4A - Substance that is irritating to the eye.
- 6.5A - Substance that is a respiratory sensitiser.
- 6.5B - Substance that is a contact sensitiser.
- 6.8B - Substance that is a suspected human reproductive or developmental toxicant.
- 6.9B - Substance that is harmful to human target organs or systems.

Hazard statement codes:

- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

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Precautionary Statement Codes - Prevention:

P102 Keep out of reach of children. - This statement applies only where the substance is available to the general public.
 P103 Read label before use. - This statement applies only where the substance is available to the general public.
 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 and hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical, ventilating and lighting equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe mist, vapours or spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 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.
 P285 In case of inadequate ventilation wear respiratory protection.

Precautionary Statement Codes- Response:

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.
 P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
 P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P331 Do NOT induce vomiting.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
 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.
 P308+P313 If exposed or concerned: Get medical advice/ attention.

Precautionary Statement Codes - Storage:

P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Precautionary Statement Codes - Disposal:

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Hexamethylene Diisocyanate Homopolymer	28182-81-2	60-90 %
	Xylene	1330-20-7	10-<20 %
	Propylene glycol monomethyl ether acetate	108-65-6	10-<20 %
	Hexamethylene diisocyanate	822-06-0	0-<0.5 %

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Ingredients To 100%
determined not to
be hazardous

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 immediate 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 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 in an emergency, contact a Poisons Information Centre (Phone 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 Combustion products may include carbon monoxide, carbon dioxide, isocyanates and oxides of nitrogen.

Specific Hazards 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 3[Y]

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. 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 authorities and EPA in accordance with local regulations.

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 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.

Conditions for Safe Storage 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.

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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

National Exposure Standards 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		Sen
	ppm	mg/m ³	ppm	mg/m ³	
NOTICES					
Isocyanates, all (as -NCO)	-	0.02	-	0.07	Sen
Xylene	50	217	-	-	-

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 No biological limit allocated.

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 local exhaust ventilation system is required.

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 laminated film, nitrile or other suitable gloves conforming to AS/NZS 2161: Occupational protective gloves.

Body Protection Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid with an aromatic solvent 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 Value	Not available

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Vapour Pressure	5.3 hPa at 20°C
Vapour Density (Air=1)	>1.0
Evaporation Rate	<1 (n-Butyl acetate=1)
Flash Point	38°C (Closed cup) NF EN 22719
Flammability	Flammable liquid.
Auto-Ignition Temperature	425°C
Flammable Limits - Lower	1.7% v/v
Flammable Limits - Upper	7.6% v/v

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.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data are available for this specific product. The available data for the ingredients are as follows: For Xylene: LD50 (Oral, Rat): 4,300 mg/kg LD50 (Dermal, Rabbit): 4,500 mg/kg LC50 (Inhalation, Rat): 5,000 ppm/4h Propylene glycol monomethyl ether acetate: LD50 (Oral, Rat): 8,532 mg/kg LD50 (Dermal, Rabbit): >5,000 mg/kg
Inhalation	Harmful by inhalation. High vapour concentrations are irritating to the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Inhalation may cause sensitisation in some individuals.
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. This product may cause sensitisation in some individuals.
Eye	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and swelling.
Chronic Effects	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	Not available
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environ. Protection	Do not allow product to enter drains, waterways or sewers.



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13. DISPOSAL CONSIDERATIONS

Disposal Considerations The disposal of the spilled or waste material must be done in accordance with applicable local and national 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.

Class 3 - Flammable Liquids must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 4.2, Spontaneously combustible substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides or
- Class 7, Radioactive materials unless specifically exempted.

It must not be loaded 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:

- Class 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:
- Class 4.2, Spontaneously combustible substances
 - Class 4.3, Dangerous when wet substances
 - Class 5.1, Oxidising substances
 - Class 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

IMDG Marine Pollutant: No

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

Packaging Instructions (passenger & cargo): 309

Packaging Instructions (cargo only): 310

U.N. Number

1866

Proper Shipping Name

RESIN SOLUTION

DG Class

3

Hazchem Code

3[Y]

Packaging Method

3.8.3RT1,RT7

Packing Group

III

EPG Number

3A1

IERG Number

14

15. REGULATORY INFORMATION



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Information**

New Zealand:
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
MSDS** MSDS Created: August 2008

Contact Person/Point Technical Support: 1800 812 864

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