



- 6.3A - Substance that is irritating to the skin.
- 6.4A - Substance that is irritating to the eye.
- 6.8B - Substance that is a suspected human reproductive or developmental toxicant.
- 6.9A - Substance that is toxic to human target organs or systems.
- 9.1D - Substance that is slightly harmful in the aquatic environment.
- 9.3C - Substance that is harmful to terrestrial vertebrates.

**Hazard statement codes:**

- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H370 Causes damage to organs.
- H401 Toxic to aquatic life.
- H433 Harmful to terrestrial vertebrates.

**Precautionary statement codes- prevention:**

- P102 Keep out of reach of children.
- 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. No smoking.
- 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 fume/mist/vapours.
- 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

**Precautionary statement codes- Response:**

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice/ attention.
- 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.
- P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
- 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.
- P309+P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
- P362 Take off contaminated clothing and wash before re-use.
- P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.

**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.

**Risk Phrase(s)**

- R10 Flammable.
- R38 Irritating to skin.
- R20/21 Harmful by inhalation and in contact with skin.
- R42/43 May cause sensitisation by inhalation and skin contact.

**Safety Phrase(s)**

- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S24/25 Avoid contact with skin and eyes.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Ingredients

Name	CAS	EINECS	Proportion
Xylene	1330-20-7	215-535-30-60	%
		7	
Propylene glycol monomethyl ether acetate	108-65-6	203-603-10-20	%
		9	
Methylene Bis-(4-cyclohexylisocyanate)	5124-30-1	225-863-0-1	%
		2	
Ingredients determined not to be hazardous.			(Balance)

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### 4. FIRST AID MEASURES

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#### 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 Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

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### 5. FIRE FIGHTING MEASURES

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#### Suitable Extinguishing Media

Foam, carbon dioxide or dry chemical powder.

#### Hazards from Combustion Products

Combustion products may include carbon monoxide, carbon dioxide and nitrogen oxides.

#### 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

• 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.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **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.

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## 7. HANDLING AND STORAGE

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### **Precautions for Safe Handling**

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 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**

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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **National Exposure Standards**

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

Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

Substance	TWA	STEL
	ppm	mg/m <sup>3</sup>
Xylene	80	350
	150	655

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

Substance	TWA	STEL
	ppm	mg/m <sup>3</sup>
Xylene	50	217
	-	-

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**

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

Clear amber liquid with an aromatic hydrocarbon odour.

**Melting Point**

Not available

**Boiling Point**

137 - 143°C \*

**Solubility in Water**

Insoluble

**Solubility in Organic Solvents**

Soluble in most organic solvents.

**Specific Gravity**

0.98 (H<sub>2</sub>O = 1)

**Vapour Pressure**

5.2 kPa at 38°C \*

**Vapour Density (Air=1)**

3.7 (Air =1) \*

**Evaporation Rate**

0.70 (Butyl acetate = 1) \*

**Flash Point**

29°C (PMCC)

**Flammability**

FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Electrically link and ground metal containers for transfers of the product to prevent accumulation of static electricity. Keep the container tightly closed.

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

1.1% \*

**Flammable Limits - Upper**

7.7% \*

**Other Information**

\* for Xylene.

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## 10. STABILITY AND REACTIVITY

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**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**

Halogens, molten sulfur, strong oxidising agents.

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Hazardous Polymerization**

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicology data available for this product.

**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.

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## 12. ECOLOGICAL INFORMATION

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### **Ecotoxicity**

Not available

### **Persistence / Degradability**

Not available

### **Mobility**

Not available

**Environ.** Do not allow product to enter drains, waterways or sewers.

### **Protection**

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## 13. DISPOSAL CONSIDERATIONS

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### **Disposal Considerations**

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

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## 14. TRANSPORT INFORMATION

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### **Transport Information**

#### **Australia:**

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gases
- Class 4.2 Spontaneously Combustible Substances
- Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides
- Class 6 Toxic Substances (where the flammable liquid is nitromethane)
- Class 7 Radioactive Substances.

#### **New Zealand:**

This material is classified as a Class 3 - Flammable Liquid according to NZS 5433:2007 Transport of Dangerous Goods on Land.

It 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 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:

- (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

### **U.N. Number**

1866

**Proper Shipping Name**  
RESIN SOLUTION

**DG Class**  
3

**Hazchem Code**  
•3Y

**Packing Group**  
III

**IERG Number**  
14

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## 15. REGULATORY INFORMATION

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### Regulatory Information

Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule**  
S6

### National and or International Regulatory 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.

**Hazard Category**  
Harmful, Irritant, Flammable, Sensitising

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## 16. OTHER INFORMATION

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### Date of preparation or last revision of MSDS

MSDS Reviewed: May 2008  
MSDS Supersedes: June 2003

### Contact Person/Point

Paul Verren For specialist advice in emergencies: Australia 1800 022 037; New Zealand 0800 154 666.

**IMPORTANT ADVICE:** This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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End of MSDS

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