



6.9B - Substance that is harmful to human target organs or systems (repeated exposure)

**Hazard statement code:**

H225 Highly flammable liquid and vapour.  
 H316 Causes mild skin irritation.  
 H320 Causes eye irritation.  
 H317 May cause an allergic skin reaction.  
 H373 May cause damage to organs through prolonged or repeated exposure by inhalation.

**Precautionary statement codes- prevention:**

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.  
 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/gas/mist/vapours/spray.  
 P261 Avoid breathing fume/gas/mist/vapours/spray.  
 P264 Wash hands and skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/eye protection/face protection.

**Precautionary statement codes- Response:**

**SKIN**  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P333+P313+P314 If skin irritation or rash occurs or you feel unwell: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
**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 codes - Storage:**

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

**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)**

R11 Highly flammable.  
 R43 May cause sensitization by skin contact.  
 R36/38 Irritating to eyes and skin.

**Safety Phrase(s)**

S9 Keep container in a well-ventilated place.  
 S16 Keep away from sources of ignition - No smoking.  
 S23 Do not breathe gas/fumes/vapour/spray  
 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
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4		60-100 %
Methyl ethyl ketone	78-93-3	201-159-10-15	0 %

Ingredients determined      Not required      (Balance)  
not to be hazardous

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## 4. FIRST AID MEASURES

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### **Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

### **Ingestion**

DO NOT induce vomiting. Immediately wash mouth out with water. If irritation develops, 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**

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**

Eyewash 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 POISON / 0800 764 766) or a doctor at once.

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## 5. FIRE FIGHTING MEASURES

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### **Suitable Extinguishing Media**

Use dry chemical powder, carbon dioxide, foam and water spray.

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating smoke, fumes and gases including phenolics, carbon monoxide and carbon dioxide.

### **Specific Hazards**

Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

### **Hazchem Code**

•3YE

### **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.

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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

Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. 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. Open containers carefully as they may be under pressure. 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. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands 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, amines, strong acids, foodstuffs, and clothing. 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. 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 applicable local and national regulations.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### National Exposure Standards

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below:

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

Substance TWA STEL NOTICES

ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Methyl ethyl ketone 150 445 300 890 -

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

Substance TWA STEL NOTICES

ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Methyl ethyl ketone 150 445 300 890 Bio

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.

Bio: Exposure can also be estimated by biological monitoring.

### Biological Limit Values

No biological limits 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 exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, 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. 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 workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. 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**

Red oxide coloured liquid.

**Odour**

Characteristic ketone

**Melting Point**

Not available

**Boiling Point**

79°C

**Solubility in Water**

Immiscible

**Specific Gravity**

1.15

**pH Value**

Not applicable

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Volatile Component**

<15%

**Flash Point**

-9°C

**Flammability**

Highly flammable liquid

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

1.9%

**Flammable Limits - Upper**

11.0%

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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 and other sources of ignition.

**Incompatible Materials**

Strong oxidising agents.

**Hazardous Decomposition Products**

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

**Hazardous Polymerization**

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicity data are available for this specific product, however toxicity data for Methyl ethyl ketone are stated below:

LD50 (Oral, Rat): 2,737 mg/kg

LC50 (Inhalation, Rat): 23.5 g/L/8h

LD50 (Dermal, Rabbit): 6,480 mg/kg

**Inhalation**

May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, headache, dizziness, nausea and vomiting.

**Ingestion**

Ingestion may cause irritation to the gastrointestinal system.

**Skin**

Irritating to skin. Skin contact will cause redness, itching and swelling. May cause sensitisation by skin contact.

**Eye**

Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

**Chronic Effects**

Repeated or prolonged contact will result in skin irritation and possible dermatitis and sensitisation.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Not available

**Persistence / Degradability**

Not available

**Mobility**

Not available

**Environ. Protection** Prevent this material entering waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations**

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.

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## 14. TRANSPORT INFORMATION

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**Transport Information****Australia:**

This material is classified as a Class 3 (Flammable Liquids) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Class 3 Dangerous Goods 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
- Class 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are 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.

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.

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**

1993

**Proper Shipping Name**

FLAMMABLE LIQUID, N.O.S. - (CONTAINS METHYL ETHYL KETONE)

**DG Class**

3

**Hazchem Code**

•3YE

**Packing Group**

II

**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 &amp; 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**

S5

**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:

Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2001

HSNO Approval Number: HSR002495.

**Hazard Category**

Irritant, Highly Flammable, Sensitising

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS**

MSDS Reviewed: June 2009.

Supersedes: July 2004.

**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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