

# Material Safety Data Sheet

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Infosafe No™ AJ1XK Issue Date : October 2011 RE-ISSUED by THERMOF

Product Name **METHANOL**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** METHANOL  
**Product Code** TECH 00000095  
**Company Name** Asia Pacific Specialty Chemicals Limited (ABN 32000316138)  
**Address** 15 Park Road SEVEN HILLS  
NSW 2147  
**Emergency Tel.** 1800 022 037 (24H)  
**Telephone/Fax Number** Tel: (02) 9839 4000  
Fax: (02) 9674 6225  
**Recommended Use** Solvent, antifreeze, fuel, denaturant, production of paints, cements, inks, plastics, pharmaceuticals.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.

**Risk Phrase(s)** Classified as hazardous  
R11 Highly flammable.  
R23/25 Toxic by inhalation and if swallowed.

**Safety Phrase(s)** S16 Keep away from sources of ignition - No smoking.  
S2 Keep out of reach of children.  
S24 Avoid contact with skin.  
S7 Keep container tightly closed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Methyl alcohol	67-56-1	100 %		

## 4. FIRST AID MEASURES

**Inhalation** Remove victim from exposure - avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek urgent medical assistance. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage.

**Ingestion** DO NOT INDUCE VOMITING. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.

**Skin** Wash with plenty of soap and water. If swelling, redness, blistering or irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use.

**Eye** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.

**First Aid Facilities** Eye wash station and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use water fog. Use CO2, dry chemical or foam.

**Hazards from Combustion Products** Carbon dioxide

**Specific Methods** Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

**Specific Hazards** Evacuate immediate area. Keep containers cool with water spray.  
May burn with an invisible flame. Mixtures as low as 21% by volume are still

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flammable (flash point below 37.8 deg C). Under some circumstances can corrode certain metals, including aluminium and zinc, and generate hydrogen gas. Heat will build pressure and may rupture closed storage containers. Keep fire exposed containers cool with water spray.

Hazchem Code

2WE

## 6. ACCIDENTAL RELEASE MEASURES

**Other Information** Shut off all possible sources of ignition. Clear area of all unprotected personnel. For large spills notify Emergency Services. Contain using sand and earth - prevent runoff into drains and waterways. Use absorbent (soil or sand, sawdust, inert material, vermiculite). Use spark free shovel. Collect and seal in properly labelled drums for disposal. Wash area down with excess water. Wear full protective clothing (see Personal Protection/Ventilation Section). Self contained breathing apparatus may be needed for prolonged periods of exposure.

## 7. HANDLING AND STORAGE

**Conditions for Safe Storage** Store in a well ventilated area away from heat and sources of ignition. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Use approved storage cabinets, tanks, rooms and buildings. Inspect periodically for deficiencies such as damage or leaks. Consider leak detection and alarm systems. Have appropriate fire extinguishers available in and near the storage area. Keep containers securely sealed and protected against physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Methyl alcohol	328	250	262	200	
<b>Other Exposure Information</b>	(skin*); Worksafe Aust. A 'skin' notation indicates that this substance will also be readily absorbed through the skin, which may be by airborne material or direct contact. The TLV is obviously invalidated if such contact should occur. Odour Threshold: 2000 - 8800 ppm WARNING! TLV is below odour thresh. level.					
<b>Engineering Controls</b>	Maintain concentration below recommended exposure limit. Use with local exhaust ventilation or: Combination particulate/gas respirator, Class A, (Organic vapour). Self contained breathing apparatus may be needed for prolonged periods of exposure.					
<b>Eye Protection</b>	Keep containers in a well ventilated area. Safety glasses, goggles or faceshield as appropriate.					
<b>Hand Protection</b>	PVC, neoprene or nitrile rubber gloves.					
<b>Personal Protective Equipment</b>	The following personal protective equipment must be worn. Overalls or similar protective apparel. Rubber boots. Splash apron. Wash contaminated clothing and protective equipment before storing/re-using. Avoid all contact. Caution - may burn with an invisible flame.					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Mobile colourless liquid with characteristic pungent odour.

**Melting Point** Not available

**Boiling Point** 64.5 degrees C

**Solubility in Water** Miscible in water and most organic solvents.

**Specific Gravity** 0.79 at 20 degrees C

**Vapour Pressure** 100mm Hg at 21.2 degrees C

**Vapour Density (Air=1)** 1.1 (air = 1)

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Product Name **METHANOL**

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<b>Evaporation Rate</b>	2.1 (BuAc = 1)
<b>Volatile Component</b>	100 %
<b>Flash Point</b>	12 degrees C
<b>Flammability</b>	Flammable liquid. Avoid all ignition sources. Mixtures with water as low as 21% by volume are still flammable (flash point below 37.8 deg C). May burn with a clear blue or invisible flame.
<b>Auto-Ignition Temperature</b>	385 degrees C
<b>Flammable Limits - Lower</b>	7.3 %
<b>Flammable Limits - Upper</b>	36 %
<b>Molecular Weight</b>	32.04

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.**Hazardous Polymerization** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Acute Oral LD50 (Rat) - 5628mg/kg Inhalation LC50 (Rat) - 64000ppm/4hr Eyes (rabbit) MODERATE irritant Skin (rabbit) MODERATE irritant May cause allergic contact dermatitis. In humans, methanol poisoning initially causes CNS depression, followed by severe metabolic acidosis, blindness and death. Onset of symptoms may be delayed, usually 12 - 18 hours. Individuals sensitivity to methanol toxicity will vary with presence of food or ethanol in stomach and upon nutritional status. Not Mutagenic in in vitro tests. AQUATIC TOXICITY; TLm 96: over 1,000 ppm
<b>Inhalation</b>	Harmful by inhalation. Effects may be delayed. Inhalation of vapour can result in headaches, dizziness, drowsiness, intoxication, visual disturbance leading to blindness, possible nausea, coughing and shortness of breath. High concentrations collapse and death.
<b>Ingestion</b>	Toxic if swallowed. Ingestion can result in nausea, vomiting, severe abdominal pain, back pain, central nervous system effects including, convulsions, blindness, loss of consciousness and ultimately proceed to coma and death.
<b>Skin</b>	Contact with skin may result in irritation. Will have a degreasing action on the skin. Can be absorbed through the skin with resultant toxic effects. Extensive and or prolonged skin contact can cause burning, itching, redness, or blisters.
<b>Eye</b>	A moderate eye irritant. Can cause moderate burning, watering, swelling and redness. High concentrations (greater than 2000ppm) of vapours will cause irritation.
<b>Chronic Effects</b>	Prolonged, chronic exposure from skin contact, inhalation or swallowing of methanol can result in dermatitis, systemic effects to the liver, heart and possibly kidneys, permanent blindness and central nervous system effects.

## 12. ECOLOGICAL INFORMATION

<b>Other Precautions</b>	TLV/STEL 250 ppm, 310 mg/m3 (skin*) IDLH Value 25000 ppm. Effects of chronic exposure can include impaired vision, damage to kidneys, heart and other organs. Exposure to high vapour concentrations or ingestion may lead to damage to nervous system, unconsciousness, blindness and ultimately death.
<b>Environ. Protection</b>	Avoid contaminating waterways. Harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal** Refer to appropriate State Waste Disposal Authority

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## 14. TRANSPORT INFORMATION

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**Transport Information** 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 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.

**U.N. Number** 1230

**Proper Shipping Name** METHANOL

**DG Class** 3

**Sub.Risk** 6.1

**Hazchem Code** 2WE

**Packaging Method** 3.8.3RT1

**Packing Group** II

**EPG Number** 3A3

**IERG Number** 16

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## 15. REGULATORY INFORMATION

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**Poisons Schedule** S6

**Hazard Category** Toxic, Highly Flammable

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## 16. OTHER INFORMATION

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**Contact Person/Point** Australia: Business Hours: Mr Paul Verren  
Telephone: (02) 9839 4024  
After Hours: 1800 022 037  
New Zealand: Business Hours: Mr Lloyd Williams  
Telephone: (09) 276 4019  
Emergency Tel: 0800 243 622

**Empirical Formula & Structural Formula** CH<sub>3</sub>OH

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