

# Material Safety Data Sheet

CS: 1.4.21

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Infosafe No™ 1CH4G Issue Date : June 2009 -ISSUED by CHEMSUPP CS: 1.4.21

Product Name **METHYL CELLULOSE**

Not classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** METHYL CELLULOSE

**Company Name** CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

**Address** 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000  
Fax: (08) 8440-2001

**Recommended Use** Protective colloid in water-based paints to prevent flocculation of pigment, film and sheeting, binder in ceramic glazes, leather tanning, dispersing, thickening and sizing agent, adhesive, food additive and laboratory reagent.

**Other Names**

<u>Name</u>	<u>Product Code</u>
METHYL CELLULOSE LR	ML054
Cellulose methyl ether	
Methylcellulose	
Tylose	

**Other Information** EMERGENCY CONTACT NUMBER: +61 08 8440 2000  
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous according to criteria of NOHSC  
NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.

**Risk Phrase(s)** Not classified as hazardous according to criteria of NOHSC

**Irritancy of Product** May cause irritation to skin and eyes. May cause respiratory and gastrointestinal tract irritation.

**Teratogenicity** No evidence of teratogenic effects.

**Safety Hazards** Avoid contact with skin and eyes. Avoid inhalation and ingestion of dust material.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization Information on Composition** Solid  
Prepared from wood pulp or chemical cotton by treatment with alkali and methylation of the alkali cellulose with methyl chloride, dimethyl sulfate or methanol and dehydrating agents.

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Methyl cellulose		9004-67-5	100 %		

## 4. FIRST AID MEASURES

**Inhalation** Remove victim to fresh air. If symptoms persist, obtain medical attention.

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<b>Ingestion</b>	Rinse mouth thoroughly with water immediately. Seek medical attention.
<b>Skin</b>	Remove contaminated clothing and wash affected skin with soap and water.
<b>Eye</b>	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## 5. FIRE FIGHTING MEASURES

<b>Hazards from Combustion Products</b>	Carbon oxides.
<b>Specific Methods</b>	Small fire: Use dry chemical, CO <sub>2</sub> , water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
<b>Specific Hazards</b>	May burn but do not ignite readily. Containers may explode when heated. May form flammable or explosive dust-air mixtures. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive gases.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.
<b>Other Information</b>	Minimum explosive dust condition: 30 g/m <sup>3</sup> .

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal</b>	Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.
<b>Personal Precautions</b>	Avoid inhalation, contact with skin, eyes and clothing. Avoid dust formation and avoid breathing dust.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid generating and inhaling dust.
<b>Conditions for Safe Storage</b>	Store away from oxidizing agents. Keep away from heat and other sources of ignition. Store in cool place and out of direct sunlight.
<b>Storage Temperatures</b>	Store at room temperature (15 to 25 °C recommended).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Other Exposure Information</b>	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for this product. There is a blanket limit of 10 mg/m <sup>3</sup> for dusts or mists when limits have not otherwise been established.
<b>Engineering Controls</b>	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including

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<b>Eye Protection</b>	selection, fit testing, training, maintenance and inspection. The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Rubber or plastic gloves.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid
<b>Appearance</b>	White to off-white, fibrous powder.
<b>Odour</b>	Odourless.
<b>Solubility in Water</b>	Soluble (swells in cold water to a viscous colloidal solution). Insoluble in hot water.
<b>Solubility in Organic Solvents</b>	Insoluble in anhydrous alcohol, ether, chloroform, glacial acetic acid, aniline, pyridine and dimethylformamide.
<b>pH Value</b>	Aqueous solutions neutral to litmus.
<b>Viscosity</b>	ML054 - Viscosity of 2% aqueous solution: 3000 mPa.s
<b>Flammability</b>	Combustible.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage. Sensitive to light. Stable up to ~300 °C.
<b>Conditions to Avoid</b>	Exposure to moisture. Heat, flames, ignition sources and incompatibles.
<b>Incompatible Materials</b>	Strong oxidisers, acids, alkalies and peroxides.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Dust may cause irritation to the respiratory tract. No adverse health effects are expected.
<b>Ingestion</b>	May be harmful if ingested in great quantity. Produces a laxative effect. Risk of esophageal, gastric, small intestinal and rectal obstruction due to osmotic disturbance. Very low toxicity.
<b>Skin</b>	May cause irritation to the skin.
<b>Eye</b>	May cause irritation to mechanical action.
<b>Mutagenicity</b>	No evidence of mutagenic effects.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Ecotoxicity: Cellulose ether products are generally of low toxicity to fish.
<b>Persistence / Degradability</b>	Biodegradability: This material is a cellulose ether product. Cellulose ether products have generally slow biodegradation rates.

## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** Dispose of according to relevant local, state and federal government regulations.

## 14. TRANSPORT INFORMATION

**Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**Poisons Schedule** Not Scheduled

## 16. OTHER INFORMATION

**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.  
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.  
South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.  
Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.  
Standards Australia, 'SAA/SNZ HB 76:2004 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, August 2004.  
Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]', AusInfo, Canberra 2004.  
Worksafe Australia, 'Hazardous Substances Information System, 2005'.  
Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.  
Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.**User Codes**

<u>User Field Title</u>	<u>User Code</u>
CAS No.	9004-67-5
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