MELBÔURNE SOLVENTS

SAFETY DATA SHEET Methanol

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: Other Names: Product Codes/Trade Names: Recommended Use:	Methanol METHYL ALCOHOL; CARBINOL; METHANOL; - Manufacture of formaldehyde, acetic acid and dimethyl terephthatlate, chemical synthesis (methyl amines, methyl chloride, methyl methacrylate), antifreeze; solvent for nitrocellulose, ethylcellulose, polyvinyl butyral, shellac, rosin, manila resin, dyes; nenaturant for ethanol; dehydrator for natural gas; fuel for utility plants (methyl fuel); feedstock for manufacture of synthetic proteins by continuous fermentation; source of hydrogen for fuel cells; home- heating-oil extender.
Applicable In: Supplier:	Australia Melbourne Solvents
	2/42-46 Hallam South Road, Hallam, VIC 3803
Address:	_, , ,
Telephone:	+61 3 9605 9333
Email Address:	info@melbournesolvents.com.au
Facsimile:	
Emergency Phone Number: Poisons Information Centre:	000 Fire Brigade and Police (available in Australia only). 13 11 26 (available in Australia only).

This Safety Data Sheet (SDS) is issued by the Supplier in accordance with National standards and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its SDS by any other person or organization. The Supplier will issue a new SDS when there is a change in product specifications and/or ASCC standards, codes, guidelines, or Regulations.

SECTION 2: HAZARD IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: Classified as **Hazardous** according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition. **Methanol** is classified as **Dangerous** Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS Classification

Flammable liquids (Category 2) Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation (Category 3) Acute toxicity, Dermal (Category 3) Specific target organ toxicity - single exposure (Category 1)

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2.2 GHS Label elements, including precautionary statements Pictogram



Signal word

Danger

Hazard statement(s) H225 H301 H311 H331 H370	Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs.
Precautionary statement(s) Prevention	
P210 P233 P260 Response	Keep away from heat/sparks/open flames/hot surfaces. – No. smoking. Keep container tightly closed. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303 + P361 + P353 Rinse skin with water/ shower.	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position
comfortable for breathing. P307 + P311 P361 P370 + P378 extinction.	IF exposed: Call a POISON CENTER or doctor/ physician. Remove/Take off immediately all contaminated clothing. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for
Storage P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances Synonyms	: Me	ethyl alcohol	
Formula Weight CAS-No. EC-No.	: 32 : 67	H ₄ O Molecular .04 g/mol /-56-1)0-659-6	
Chemical Name:	Synonyms	Concentration:	Classification
Methanol		100%	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H311, H331, H370

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre.

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Swallowed:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
First Aid Facilities: Advice to Doctor:	First aid kits, safety showers, eye wash stations Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: FIRE FIGHTING MEASURES

Advice for Fire Fighters	Wear self contained breathing apparatus for fire fighting if necessary.
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.
Hazards from combustion products: HAZCHEM Code:	Carbon oxides •2WE

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency
Procedure:Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate
ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of
vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

- **Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:	National Occupat				stralian Safety &
	Component	CAS-No.	Value	Control parameters	Basis
	Methanol	67-56-1	STEL	250 ppm 328 mg/m3	Australia. Workplace Exposure Standards
	Remarks Skin absorption				
					entation source
			TWA	200 ppm 262 mg/m3	Australia. Workplace Exposure Standards
			Skin at	osorption	
					entation source
Notes:					ants should be kept to as ses to below the National
	Standard.	NOIKADIE (pi	acticable) and in all cas	
	These Exposure health hazards.	Standards a	re guides	s to be used in	the control of occupational
		Standards s	hould no	t be used as fi	ne dividing lines between safe
		oncentration	s of cher	nicals. They ar	e not a measure of relative
	toxicity. TWA (Time Weig	hted Averag	e): the tii	me-weighted a	verage airborne
			our work	ing day, for a f	ive-day working week over an
	entire working life According to curr		ae this co	oncentration sl	hould neither impair the health
	of, nor cause und	due discomfo	ort to, nea	arly all workers	· ·
					orne concentration over a / time during a normal eight-
	hour work day.				and a normal eight
Biological Limit Values: ENGINEERING CONTROLS	N/A				
□ Ventilation:					n proof extraction ventilation
					accumulate poorly ventilated some distance to an ignition
					es where vapour may have
	collected. Mainta Keep containers				ended exposure standard.
Special Consideration for					r) and are dangerous. Do not se such containers to heat,
Repair &/or Maintenance of	flame, sparks, sta				
Contaminated Equipment:					hollows or sumps. Do not cted. Keep containers closed
	when not in use.		vapour I	nay nave colle	orea. Neep containers closed
PERSONAL PROTECTION		Voor on one	round rea	nirotor with a	itable Turpe 'A' filter for
Personal Protection					itable Type 'A' filter for ear an Air-line respirator
					splashing in the eyes e, or PVC protective gloves
	(AS2161). CLÓT	HING: Cherr	nical-resis		, PVC splash apron and
	safety footwear (AS3765/221	0).		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Odour: pH, at stated concentration: Vapour pressure: Vapour Density: Boiling Point/range (°C): Freezing/Melting Point (°C): Specific Gravity (H₂O = 1): FLAMMABLE MATERIALS □ Flash Point: Flash Point Method: □ Flammable (Explosive) Limit - Upper: □ Flammable (Explosive) Limit – Lower: □ Auto ignition Temperature: **ADDITIONAL PROPERTIES** Residue on Evaporation **Volatile Organic Compounds Content** (VOC)

Mobile clear colourless liquid

Non-Residual N/A 12.8 kPa (25'C) mm Hg (1 atmosphere 1.11 Typically 64.4-64.8 deg C -97.7 deg C 0.790-0.796 (20°C)

11°C Closed cup 36.5% 6% 470°C

1 ppm m/m (as specified by the Green Building Council of Australia) 100%

SECTION 10: STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions no data available

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

Reactivity

no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Health effects information is based on reported effects in use from overseas and Australian reports. **Toxicological Data:**

Information on toxicological effects

Acute toxicity

LDLO Oral - Human - 143 mg/kg Remarks: Lungs, Thorax, or Respiration:Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LD50 Oral - rat - 1,187 - 2,769 mg/kg

LC50 Inhalation - rat - 4 h - 128.2 mg/l

LC50 Inhalation - rat - 6 h - 87.6 mg/l

LD50 Dermal - rabbit - 17,100 mg/kg

Skin corrosion/irritation Skin - rabbit Result: No skin irritation

Serious eye damage/eye irritation

Eyes - rabbit Result: No eye irritation

Respiratory or skin sensitisation

Maximisation Test - guinea pig Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity

Ames test S. typhimurium Result: negative

in vitro assay fibroblast Result: negative Mutation in mammalian somatic cells.

Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) mouse - male and female Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Damage to foetus not classifiable

Specific target organ toxicity - single exposure

Causes damage to organs.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification

Additional Information RTECS: PC1400000

Methyl alcohol may be fatal or cause blindness if swallowed.

SDS: METHANOL Date Issued: 23.11.19 Revision date: 10.05.21 Rev 1 Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed., Damage of the:, Liver, Kidney

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish

Toxicity

mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h

NOEC - Oryzias latipes - 7,900 mg/l - 200 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 h

Toxicity to algae Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) -22,000.0 mg/l - 96 h

Persistence and degradability

Biodegradability aerobic - Exposure time 5 d Result: 72 % - rapidly biodegradable

Biochemical Oxygen Demand (BOD)

Chemical Oxygen Demand (COD)

Theoretical oxygen demand

600 - 1,120 mg/g

1,420 mg/g

1,500 mg/g

Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l

Mobility in soil

Will not adsorb on soil.

Bioconcentration factor (BCF): 1.0

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

Additional ecological information

Avoid release to the environment.

Stability in water

at 19 °C83 - 91 % - 72 h Remarks: Hydrolyses on contact with water. Hydrolyses readily.

SECTION 13: DIPOSAL CONSIDERATIONS

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

IMDG: 1230	IATA-DGR: 1230
IMDG: 3 (6.1)	IATA-DGR: 3 (6.1)
IMDG: II	IATA-DGR: II
IMDG Marine pollutant: no	IATA-DGR: no
	IMDG: 3 (6.1) IMDG: II

SECTION 15: REGULATORY INFORMATION

Poisons Schedule:	6
EPG	16
AICS Name	Methanol
NZ Toxic substance	3
HSNO Hazard Classification	3.1B 6.1D
	6.4A 6.8B
	6.9A 9.3C
ERMA Approval code	HSR001186

SECTION 16: OTHER INFORMATION

For further information on this product, please contact: Melbourne Solvents 2/42-46 Hallam South Rd. Hallam, Victoria 3803, Australia Phone: +61 3 9605 9333

ADDITIONAL INFORMATION

SDS: METHANOL Date Issued: 23.11.19 Revision date: 10.05.21 Rev 1

Australian Standards References:

AS 1020	The C	The Control of undesirable static electricity.		
AS 1076	associ	de of Practice for selection, installation and maintenance of electrical apparatus and sociated equipment for use in explosive atmospheres (other than mining applications) – rts 1 to 13.		
AS/NZS 1336	Recon	mmended Practices for Occupational Eye Protection		
AS/NZS 1715	Select	ction, Use and Maintenance of Respiratory Protective Devices		
AS/NZS 1716	Respir	spiratory Protective Devices		
AS 1940	The St	e Storage and Handling of Flammable and Combustible Liquids.		
AS 2161	Indust	strial Safety Gloves and Mittens (excluding electrical and medical gloves)		
AS 2380	Electri	ical equipment for explosive atmospheres – Explosion Protection Techniques (Parts 1		
	to 9).			
AS 3000	Electri	lectrical installations (known as the Australian/New Zealand Wiring Rules).		
Other Reference	ces:			
NOHSC:2011(2	003)	National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition, April 2003, National Occupational Health and Safety Commission.		
NOHSC; 2012		National Code of Practice for the Labelling of Workplace Substances, March 1994,		
(1994)		Australian Government Publishing Service, Canberra.		
NES		National Occupational Exposure Standards for workplace Atmospheric Contaminants (NES) Australian Safety and Compensation Council, ASCC (Formerly NOHSC) 1995 as amended.		

Australian Dangerous Goods Code 6th Edition

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AUTHORISATION

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END OF SDS