

Methanol**230-4**

Version 1.2 2

Revision Date 08/24/2017

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methanol

SDS Number : 000000011383

Product Use Description : Solvent

Manufacturer or supplier's details : CHEM-SUPPLY Pty Ltd
38-50 Bedford St.
Gillman SA 5013, Australia

For more information call : +61 8 8440 2000
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
:
: **CHEMTREC in Australia: +(61)-290372994**
: (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture : Acute toxicity, Category 3, Oral
Acute toxicity, Category 3, Dermal
Acute toxicity, Category 3, Inhalation
Flammable liquids, Category 2
Specific target organ toxicity - single exposure, Category 1

GHS Label elements, including precautionary statements

Symbol(s) : 

Signal word : Danger

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- Hazard statements : Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes damage to organs.
- Precautionary statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
- Response:**
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed: Call a POISON CENTER or doctor/ physician. Remove/ Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- Storage:**
Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Store locked up.
- Disposal:**
Dispose of contents/ container to an approved waste disposal plant.
- Other hazards which do not result in classification : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Methyl Alcohol

Formula : CH₄O

Chemical nature : Substance

CAS-No. : 67-56-1

Hazardous components

Chemical name	CAS-No.	Concentration
Methanol	67-56-1	<= 100%

4. FIRST AID MEASURES

Inhalation : Call a physician immediately.
Remove to fresh air.
If breathing is difficult, give oxygen.
Use oxygen as required, provided a qualified operator is present.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Take off contaminated clothing and shoes immediately.
Wash contaminated clothing before re-use.
Call a physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician.

Ingestion : Call a physician immediately.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

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- Cool closed containers exposed to fire with water spray.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Flammable.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Formaldehyde
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- : HAZCHEM Code: 2WE

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment.
Immediately evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.
- Methods for cleaning up : Ventilate the area.
No sparking tools should be used.
Use explosion-proof equipment.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

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7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Keep container tightly closed.
Do not smoke.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.
Take precautionary measures against static discharges.
Ensure all equipment is electrically grounded before beginning transfer operations.
Use explosion-proof equipment.
Keep product and empty container away from heat and sources of ignition.
No sparking tools should be used.
No smoking.

Storage

- Requirements for storage areas and containers : Store in area designed for storage of flammable liquids.
Protect from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Store away from incompatible substances.
Container hazardous when empty.
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Materials to avoid : Strong oxidizing agents, Aluminium, Magnesium, May attack many plastics, rubbers and coatings.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol	67-56-1	STEL : Short	250 ppm	12 2011	AU NOEL: Australia.

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		Term Exposure Limit (STEL):	328 mg/m ³		National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		SKIN_DES : Skin designation:	Can be absorbed through the skin.	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		TWA : Time Weighted Average (TWA):	200 ppm 262 mg/m ³	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)
		SKIN_DES : Skin designation:	Can be absorbed through the skin.	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
		STEL : Short Term Exposure Limit (STEL):	250 ppm 328 mg/m ³	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
		TWA : Time Weighted Average (TWA):	200 ppm 262 mg/m ³	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Engineering measures

Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.

Personal protective equipment

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Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Use NIOSH approved respiratory protection.
Hand protection	: Solvent-resistant gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields If splashes are likely to occur, wear: Goggles or face shield, giving complete protection to eyes
Skin and body protection	: Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective clothing. If splashes are likely to occur, wear: Protective suit
Hygiene measures	: When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. This material has an established AIHA ERPG exposure limit. The current list of ERPG exposure limits can be found at http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook_table-only.pdf .
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid, clear
Colour	: colourless
Odour	: slight alcohol-like
pH	: Note: Not applicable
Melting point/range	: Note: Not applicable

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Boiling point/boiling range	: 64.7 °C
Flash point	: 52 °F (11 °C) Method: closed cup
Evaporation rate	: ca. 5 Method: Compared to Butyl acetate.
Lower explosion limit	: 6 %(V)
Upper explosion limit	: 36 %(V)
Vapour pressure	: 129.32 hPa at 20 °C(68 °F)
Vapour density	: 1.11 Note: (Air = 1.0)
Density	: 0.792 g/cm ³ at 20 °C
Water solubility	: Note: completely soluble
Ignition temperature	: 464 °C
Decomposition temperature	: Note: No decomposition if used as directed.
Molecular weight	: 32.04 g/mol

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10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials to avoid	: Strong oxidizing agents Aluminium Magnesium May attack many plastics, rubbers and coatings.
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂) Formaldehyde

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 5,628 mg/kg Species: Rat
Acute inhalation toxicity	: LC50: 64000 ppm Exposure time: 4 h Species: Rat
Acute dermal toxicity	: LD50: 15,800 mg/kg Species: Rabbit
Skin irritation	: Species: Rabbit Classification: irritating Exposure time: 24 h
Eye irritation	: Species: rabbit eye Classification: irritating

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- Repeated dose toxicity : Species: Rat
Application Route: Inhalation
Test substance: Methanol
Note: Developmental Toxicity NOAEL (maternal toxicity)
10,000 ppm NOAEL (developmental toxicity) 5,000 ppm
Skeletal and visceral malformations.
- Genotoxicity in vitro : Note: In vitro tests did not show mutagenic effects
- Genotoxicity in vivo : Note: In vivo tests did not show mutagenic effects

12. Ecological information**Toxicity**

- Toxicity to fish : LC50: 29,400 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
- Toxicity to daphnia and other aquatic invertebrates : LC50: 10,000 mg/l
Exposure time: 24 h
Species: Daphnia (water flea)
- Toxicity to bacteria : EC50: 43,000 mg/l
Exposure time: 5 min
Species: Photobacterium phosphoreum
- : EC50: 40,000 mg/l
Exposure time: 15 min
Species: Photobacterium phosphoreum
- : EC50: 39,000 mg/l
Exposure time: 25 min
Species: Photobacterium phosphoreum

Other adverse effects

- Additional ecological : Accumulation in aquatic organisms is unlikely.

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information

The product is readily degradable in the environment.

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

UN/ID No. : UN 1230
Description of the goods : METHANOL
Class : 3
Packing group : II
Classification Code : FT1
Hazard Identification Number : 336
Labels : 3 (6.1)

ADG_ROAD

UN/ID No. : UN 1230
Description of the goods : METHANOL
Class : 3
Packing group : II
Hazard Identification Number : 336
Labels : 3 (6.1)

IATA

UN/ID No. : UN 1230
Description of the goods : Methanol
Class : 3
Packing group : II
Labels : 3 (6.1)
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 352
Packing instruction (passenger aircraft) : Y341

IMDG

UN/ID No. : UN 1230
Description of the goods : METHANOL
Class : 3
Packing group : II

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Labels : 3 (6.1)
EmS Number 1 : F-E
EmS Number 2 : S-D

Marine pollutant : no

HAZCHEM Code: 2WE

15. REGULATORY INFORMATION**National regulatory information**

Standard for the Uniform : Schedule 6
Scheduling of Medicines and
Poisons

Other international regulations**Notification status**

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory
(Notification and
Assessment) Act

Canada. Canadian : All components of this product are on the Canadian DSL
Environmental Protection Act
(CEPA). Domestic
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)

Philippines. The Toxic : On the inventory, or in compliance with the inventory
Substances and Hazardous
and Nuclear Waste Control
Act

China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances

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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION**Sources of key data used to compile the Safety Data Sheet:**

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by:
Honeywell Performance Materials and Technologies Product Stewardship Group

End of Safety Data Sheet