

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Methanol

Synonyms Wood spirit, Wood alcohol, Methyl alcohol, Methyl hydroxide, Methylol, Monohydroxymethane, Wood naphtha.

Product code 2004

Relevant identified uses of the substance or mixture and uses advised against

Use Solvent. Industrial use.

Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

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Sandton
2090
South Africa

Telephone +27103445000

E-mail address sasolchem.info.sa@sasol.com

Emergency telephone number +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

+86 10 5100 3039 (China)

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Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Classification	Flammable liquids	Category 2
	Acute oral toxicity	Category 3
	Acute inhalation toxicity	Category 3
	Acute dermal toxicity	Category 3
	Specific target organ toxicity - single exposure	Category 1

Label elements

Pictogram



Signal word

Danger

Hazard statements

H225: Highly flammable liquid and vapour.
H301: Toxic if swallowed.
H331: Toxic if inhaled.
H311: Toxic in contact with skin.
H370: Causes damage to organs.

Precautionary statements

Print Date 26.06.2017

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Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ ventilating/ lighting equipment.

P242: Use only non-sparking tools.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284: In case of inadequate ventilation wear respiratory protection.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Response

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P363: Wash contaminated clothing before reuse.

P311: Call a POISON CENTER /doctor.

P321: Specific treatment (see supplemental first aid instructions on this label).

Storage

P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405: Store locked up.

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Disposal	P501 Dispose of contents/container in accordance with local regulations.
Other hazards	No data available

SECTION 3. Composition/information on ingredients

Substance

Methanol

Contents: 99.99 %W/W

CAS-No. 67-56-1

Index-No. 603-001-00-X

EC-No. 200-659-6

Hazard statements *H225 H331 H311 H301 H370*

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

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, get medical attention immediately
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

persists, consult a specialist.

Ingestion

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media

Alcohol-resistant foam. Dry chemical. Water spray.

Special hazards arising from the substance or mixture

Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. Accidental release measures

Personal precautions

Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

hazardous waste.

Reference to other sections Refer to Section 8 and 13

SECTION 7. Handling and storage

- Safe handling advice** Do not breathe vapours or spray mist. Wear personal protective equipment.
- Advice on protection against fire and explosion** Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.
- Requirements for storage areas and containers** Keep containers tightly closed in a cool, well-ventilated place.
- Advice on common storage** No data available

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
METHYL ALCOHOL	TWA	260 mg/m ³	1995	South Africa RELs
METHANOL	TWA	200 ppm	1995	South Africa RELs
METHYL ALCOHOL	STEL	310 mg/m ³	1995	South Africa RELs
METHYL ALCOHOL	STEL	250 ppm	1995	South Africa RELs

Exposure controls

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

Suitable respiratory equipment:

Hand protection

Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

Eye protection

Safety glasses with side-shields

Skin and body protection

Protective suit Safety shoes

Hygiene measures

Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Colourless
Odour	Alcohol-like
Odour Threshold	No data available
pH	7; Neutral

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Melting point/range	-97.8 ° C
Boiling point/boiling range	64.7 ° C
Flash point	12 ° C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	463.89 ° C
Lower explosion limit	6 %(V)
Upper explosion limit	36.5 %(V)
Vapour pressure	97.68 hPa; 20 ° C
Relative vapour density	1.1
Density	0.79 g/cm ³ ; 20 ° C
Water solubility	Miscible
Partition coefficient: n-octanol/water	log Pow: -0.8
Viscosity, dynamic	0.61 mPa.s

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat, flames and sparks.

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Materials to avoid Reducing agents. Oxidizing agents.

Hazardous decomposition products Carbon oxides

SECTION 11. Toxicological information

Acute oral toxicity Methanol:
LD50 : > 50 - 300 mg/kg; (literature value)

Acute inhalation toxicity Methanol:
LC50 Rat: > 2 - 10 mg/l; (literature value)

Acute dermal toxicity Methanol:
LD50 : > 200 - 1,000 mg/kg;

Skin irritation Methanol:
Rabbit: Not irritating; (literature value) Based on available data, the classification criteria are not met.

Eye irritation Methanol:
Rabbit: Slightly irritating (literature value), Based on available data, the classification criteria are not met.

Sensitisation Methanol:
Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value), Based on available data, the classification criteria are not met.

SECTION 12. Ecological information

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Toxicity to fish	Methanol: static test; <i>Leuciscus idus</i> ; 48 h; LC50; > 100 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Methanol: static test; <i>Daphnia magna</i> (Water flea); 24 h; EC50; > 100 mg/l(literature value)
Toxicity to algae	Methanol: static test; <i>Chlorella pyrenoidosa</i> (aglae)growth rate; 96 h; EC50; > 100 mg/l; OECD Test Guideline 201; (literature value)
Biodegradability	Methanol: aerobic; > 60 %; 5 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)
Mobility in soil	Methanol: Absorption / desorption Koc: 1 Not expected to adsorb on soil. (literature value) Highly mobile in soils
Results of PBT and vPvB assessment	Methanol: Based on available data, the classification criteria are not met.
Other adverse effects	Methanol: No data available

SECTION 13. Disposal considerations

Product	Dispose of as special waste in compliance with local and national regulations.
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SECTION 14. Transport information

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

ADR

UN number: 1230
Class: 3, (6.1)
Packaging group: II; FT1;
Proper shipping name: METHANOL

RID

UN number: 1230
Class: 3, (6.1)
Packaging group: II; FT1
Proper shipping name: METHANOL

ADNR

UN number: 1230
Class: 3, (6.1)
Packaging group: II; FT1
Proper shipping name: METHANOL

IMDG

UN number: 1230

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Class:	3, (6.1)
EmS:	F-E, S-D; MFAG: 19
Packaging group:	II
Proper shipping name:	METHANOL
Marine pollutant	Not a Marine Pollutant
ICAO/IATA	
UN number :	1230
Class:	3, (6.1)
Packaging group:	II
Proper shipping name:	METHANOL
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Methyl alcohol Ship Type: 3 Pollution Category: Y

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA TSCA Inventory

All chemical constituents are listed in: USA TSCA Inventory
(See chapter 3)

Canadian Domestic Substances List (DSL)

All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety

Safety Data Sheet

Methanol

Version 1.02

Revision Date 26.06.2017

and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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