

# Safety Data Sheet

## Methanol

Version 1.03

Revision Date 15.02.2021

### 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, Methylool, Monohydroxymethane, Wood naphtha.

**Product code**

2004

**CAS-No.**

67-56-1

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

Solvent. Industrial use.

**Uses advised against**

Prohibited for use in production of hand sanitizer.

**Manufacturer or supplier's details****Company**

Sasol Chemicals, a division of Sasol South Africa Ltd

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South Africa**Telephone**

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**E-mail address**

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**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)  
+86 400 120 6011 (China)  
+27 (0)17 610 4444 (South Africa)  
0800 112 890 RSA-Local only  
+61 (2) 8014 4558 (Australia)

### SECTION 2. Hazards identification

**Classification of the substance or mixture**

REGULATION (EC) No 1272/2008

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

### Label elements

#### REGULATION (EC) No 1272/2008

Route of exposure cannot be excluded: For certain hazard classes, e.g. STOT, the route of exposure should be indicated in the hazard statement only if it is conclusively proven that no other route of exposure can cause the hazard in accordance to the criteria in Annex I. Under Directive 67/548/EEC the route of exposure is indicated for classifications with R48 when there was data justifying the classification for this route of exposure. The classification under 67/548/EEC indicating the route of exposure has been translated into the corresponding class and category according to this Regulation, but with a general hazard statement not specifying the route of exposure as the necessary information is not available.

Hazard pictograms



Signal word

: Danger

Hazard statements

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

### Precautionary statements



**SASOL**

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#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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

P264 Wash the contact area thoroughly after handling.

#### Response

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

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

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

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

#### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly

closed. P405 Store locked up.

#### Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

### 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 H301 H331 H311 H370

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### SECTION 4. First aid measures

#### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Dry powder Foam
<b>Special hazards arising from the substance or mixture</b>	Flash back possible over considerable distance.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

### SECTION 6. Accidental release measures



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- 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** Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up** Soak up with inert absorbent material and dispose of as hazardous waste.
- Reference to other sections** Refer to section 8 and 13

**SECTION 7. Handling and storage**

- Safe handling advice** Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations.
- Advice on protection against fire and explosion** Keep away from heat and sources of ignition. Use explosion-proof equipment.
- Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and 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/m3	1995	South Africa RELs
METHANOL	TWA	200 ppm	1995	South Africa RELs
METHYL ALCOHOL	STEL	310 mg/m3	1995	South Africa RELs
METHYL ALCOHOL	STEL	250 ppm	1995	South Africa RELs

### Exposure controls

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### Engineering measures

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

### Personal protective equipment

<b>Respiratory protection</b>	Respirator with combination filter for vapour/particulate (EN 141)
<b>Hand protection</b>	Gloves suitable for permanent contact: Material: butyl-rubber Break through time: 4 h Material thickness: 0.5 mm
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Protective suit. Safety shoes.
<b>Hygiene measures</b>	Wash hands before breaks and immediately after handling the product.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 ° C; 1,013 hPa
<b>Colour</b>	Colourless
<b>Odour</b>	Alcohol-like
<b>Odour Threshold</b>	No data available
<b>pH</b>	7; Neutral
<b>Melting point/range</b>	-97.8 ° C
<b>Boiling point/boiling range</b>	64.7 ° C
<b>Flash point</b>	12 ° C; closed cup
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Auto-ignition temperature</b>	463.89 ° C
<b>Lower explosion limit</b>	6 %(V)
<b>Upper explosion limit</b>	36.5 %(V)
<b>Vapour pressure</b>	128 hPa; 20 ° C

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Relative vapour density	1.1
Density	0.79 g/cm <sup>3</sup> ; 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 recommended storage conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat, flames and sparks.
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: vapour; > 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)

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### SECTION 12. Ecological information

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

### SECTION 13. Disposal considerations

<b>Product</b>	Dispose of as special waste in compliance with local and national regulations.
<b>Packaging</b>	Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous.

### SECTION 14. Transport information



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### DG Pictogram



### 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  
 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 ICAO/IATA: Methyl alcohol  
 Ship Type: 3



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to Annex II of MARPOL      Pollution Category: Y  
73/78 and the IBC Code

### SECTION 15. Regulatory information

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

<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
<b>Canadian Domestic Substances List (DSL)</b>	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
<b>Australian Inv. of Chem. Substances (AICS)</b>	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
<b>Jap. Inv. of Exist. &amp; New Chemicals (ENCS)</b>	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
<b>Japan. Industrial Safety &amp; Health Law (ISHL)</b>	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
<b>Korea. Existing Chemicals Inventory (KECI)</b>	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
<b>China Inv. Existing Chemical Substances (IECSC)</b>	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.

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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 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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