



## MATERIAL SAFETY DATA SHEET

### METHANOL

Revision Number : 00

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#### Section 1 - Chemical Product and Company Identification

##### Product identifier

**Product Name** : METHANOL  
**Synonyms** : Methanol, Methanol, Wood alcohol, Methyl alcohol, Methyl hydroxide, Methylol, Monohydroxymethane, Wood naphtha, Wood spirit, Sasolburg  
**CAS No.** : 67-56-1  
**Chemical Formula** : CH<sub>3</sub>OH  
**Use** : Solvent, For industrial use only

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#### Section 2 - Composition, Information on Ingredients

Ingredient	CAS#	Percent	Hazardous
Methanol	67-56-1	99.99%	Yes

CAS-No. 67-56-1

Index-No. 603-001-00-X

EC-No. 200-659-6

Symbol(s) F, T

R-phrase(s) -R11 -R23/24/25 -R39/23/24/25

For the full text of the R-phrases mentioned in this Section, see Section 16

#### Section 3 - Hazards Identification

##### Identification of the risks

R11 : Highly flammable.  
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25 : Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### Section 4 - First Aid Measures

**General advice** : First aider needs to protect himself.

**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



<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of running water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Section 5 - Firefighting Measures

<b>Suitable extinguishing media</b>	Alcohol-resistant foam, Dry chemical, Water spray
<b>Specific hazards during firefighting</b>	Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Special protective equipment for firefighters.</b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment
<b>Further information</b>	Cool containers / tanks with water spray

Section 6 - Accidental Release Measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
<b>Environmental precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste.
<b>Additional advice</b>	Never return spills in original containers for re-use.

Section 7 - Handling and Storage

<b>Handling</b>	
<b>Safe handling advice</b>	Do not breathe vapours or spray mist. Wear personal protective equipment.
<b>Advice on protection against fire and explosion</b>	Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment
<b>Storage</b>	
<b>Requirements for storage areas and containers</b>	Keep containers tightly closed in a cool, well-ventilated place.

Section 8 - Exposure Controls, Personal Protection

**Components with workplace control parameters**  
**NATIONAL OCCUPATIONAL EXPOSURE LIMITS**

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



**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

Components	Type	Control parameters	Update	Basis
METHANOL	TWA	260 mg/m <sup>3</sup>	12 2009	EU Exposure Limit Values
	TWA	200 ppm	12 2009	EU Exposure Limit Values

**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.

**Protective measures**

Wear suitable protective equipment.

Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Alcohol-like pungent
<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>Autoignition temperature</b>	463.89 °C
<b>Lower explosion limit</b>	6 %(V)
<b>Upper explosion limit</b>	36.5 %(V)
<b>Vapour pressure</b>	97.68 hPa; 20 °C
<b>Density</b>	0.790 g/cm <sup>3</sup> ; 20 °C
<b>Water solubility</b>	miscible
<b>Partition coefficient: n-octanol/water</b>	log Pow: -0.8
<b>Viscosity, dynamic</b>	0.614 mPa.s
<b>Relative vapour density</b>	1.1

Section 10 - Stability and Reactivity

<b>Materials to avoid</b>	Reducing agents, Oxidizing agents
<b>Hazardous decomposition products</b>	Carbon oxides
<b>Thermal decomposition S</b>	table under normal conditions.



### Section 11 - Toxicological Information

**Acute oral toxicity** LD50 rat: 5,628 mg/kg;  
**Acute dermal toxicity** LD50 rabbit: 15,800 mg/kg;

### Section 12 - Ecological Information

**Ecotoxicity effects**  
**Toxicity to fish** LC50 Pimephales promelas: 29.4 mg/l; 96 h; literature value

### Section 13 - Disposal Considerations

**Product** Dispose of as special waste in compliance with local and national regulations.  
**Contaminated packaging** Store containers and offer for recycling of material when in accordance with the local regulations.

### Section 14 - Transport Information

**ADR** UN number: 1230; Class: 3, (6.1); Packaging group: II; FT1;  
Description of the goods: METHANOL  
**RID** UN number: 1230; Class: 3, (6.1); Packaging group: II; FT1;  
Description of the goods: METHANOL  
**ADNR** UN number: 1230; Class: 3, (6.1); Packaging group: II; FT1;  
Description of the goods: METHANOL  
**IMDG** UN number: 1230; Class: 3, (6.1); EmS: F-E, S-D; MFAG: 19; Packaging group: II;  
Description of the goods: METHANOL  
**ICAO/IATA** UN number : 1230; Class: 3, (6.1); Packaging group: II;  
Description of the goods: Methanol

### Section 15 - Regulatory Information

#### Labelling



**Regulatory Symbol(s)** base 67/548/EEC  
F: Highly flammable  
T: Toxic

**R-phrases(s)** R11: Highly flammable.  
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.



**S-phrase(s)**

R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
S 7: Keep container tightly closed.  
S16: Keep away from sources of ignition - No smoking.  
S36/37: Wear suitable protective clothing and gloves.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**Hazardous components  
which must be listed  
on the label**

Methanol

Section 16 - Additional Information

**Full text of R-phrases referred to under sections 2 and 3**

R11 Highly flammable.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

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