

METHANOL

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product label name Methanol
Supplier Methanor Vof
Stationsplein 4
PO Box 247
NL-3800 AE Amersfoort
Tel.: +31-334676884
Emergency telephone + 31 570679211 (Fax. + 31 570679801)
Akzo Nobel Chemicals-Deventer-NL
Intended use Chemical intermediate, solvent

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives
Information on hazardous ingredients

Chemical description Methanol

Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name	
1	99.9	67-56-1	Methanol	
Number	EC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1	200-659-6	603-001-00-X	F T	R11 R23/24/25 R39/23/24/25

3. HAZARDS IDENTIFICATION

Highly flammable.

Toxic by inhalation, in contact with skin and if swallowed.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

4. FIRST AID MEASURES

Symptoms and effects Breathing difficulties, dizziness, headache, drowsiness or stupor, unconsciousness.
Toxic by inhalation and if swallowed. Degreases the skin.

First aid

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation

Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice.

Skin

Remove contaminated clothing. Wash immediately with copious amounts of water. Seek medical advice.

Eye

Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Ingestion

Rinse mouth, give water to drink. Transport to hospital (send this Safety Data Sheet with the patient).

Advice to physician

Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES

Extinguishing media (sprayed) water, foam, dry chemical powder, Carbon dioxide.

Unsuitable extinguishing media none known

Special exposure hazards Reacts strongly with halogenated hydrocarbons. Vapours may form explosive mixtures with air.

Hazardous decomposition/combustion products none known

Protective equipment

Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions For personal protection see Section 8.

Environmental precautions Do not empty into drains.

Methods for cleaning up Keep away from sources of ignition - No smoking. Collect as much as possible in a clean container for (preferable) reuse or disposal. Flush remainder with water.

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7. HANDLING AND STORAGE

Handling	The usual precautions for handling chemicals should be observed.
Fire and explosion prevention	Keep away from sources of ignition - No smoking.
Storage requirements	Store at a cool and well ventilated place. Keep away from sources of ignition - No smoking. Keep away from oxidants.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Name

Methanol	OES-TWA	266.0 mg/m ³	Can be absorbed through skin
	OES-STEL	333.0 mg/m ³	Can be absorbed through skin

Personal protection

Respiratory	Use self-contained or supplied-air respiratory equipment.
Hand	protective gloves
Eye	safety goggles
Skin and body	protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour	colourless
Odour	alcohol like
Boiling point/range	64.6 °C
Melting point/range	-98 °C
Flash point	10 °C (closed cup)
Flammability	Highly flammable
Autoignition temperature	385 °C
Explosive properties	Vapours may form explosive mixtures with air
Explosion limits	4.4 - 38.5 Vol % (50 °C)
Oxidizing properties	not determined
Vapour pressure	3.87 kPa (0 °C) 54.6 kPa (50 °C)
Density	approx. 790 kg/m ³ (20 °C)
Bulk density	not relevant
Solubility in water	Miscible
Solubility in other solvents	Soluble in organic solvents
pH value	not relevant
Partition coefficient n-octanol/water	Log Pow: - 0.7
Relative vapour density (air=1)	1.11
Viscosity	0.614 mPa.s (20 °C)

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Reaction with oxidizing agents. Vapours may form explosive mixtures with air.
Materials to avoid	Mg and Na
Hazardous decomposition products	none known

11. TOXICOLOGICAL INFORMATION

Name	Methanol
Acute toxicity	
Oral LD50	rat : 5620 mg/kg (Lit.)
Irritation	
Skin	rabbit: Moderately irritating
Other toxicological information	Repeated or prolonged contact with preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin

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12. ECOLOGICAL INFORMATION

Name	Methanol
Ecotoxicity algae	No Observed Adverse Effect Level (NOAEL) = 8000 mg/l
Fate	
Degradation Biotic	Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Product	According to local regulations.
Contaminated packaging	According to local regulations.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class	3	ADR Classification Code	FT1
RID class	3	ADR/RID packing group	II
Hazard Identification No.	336	Substance Identification No.	1230
TREM-Card	CEFIC TEC(R)- 30S1230	UN number	1230
Proper Shipping Name	Methanol		
Other information	Transport label(s): 3 + 6.1		

Sea transport (IMDG-code/ IMO)

IMO/IMDG code		Class	3
Packing group	II	UN number	1230
EMS	F-E, S-D	Subsidiary Risk	6.1
Marine pollutant	no		
Proper Shipping Name	Methanol		
Other information	Transport label(s): 3 + 6.1		

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR		UN number	1230
Class	3	Packing group	II
Proper Shipping Name	Methanol		
Other information	Transport label(s): 3 + 6.1		

15. REGULATORY INFORMATION

Chemical description	Methanol
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Labelling according to EC directives

EC-number	See section 2
Classification based on	Annex-1



Symbol(s) HIGHLY FLAMMABLE (F+) TOXIC (T)

R(isk) phrase(s) 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

S(afety) phrase(s) S1/2: Keep locked up and out of the reach of children
S7: 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)

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Wassergefährdungsklasse (WGK) 1 (Kommission Bewertung Wassergefährdender Stoffe)

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

R-pharse information

Chemical name	Risk-phrase(s)	
Methanol	R11 R23/24/25 R39/23/24/25	Highly flammable Toxic by inhalation, in contact with skin and if swallowed Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

History

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