

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION & COMPANY

Product Name METHANOL

Product Code 61088X

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
METHANOL	200-659-6	67-56-1	100%	F;R11T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION

CLASSIFICATION F;R11
 T; 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

4. FIRST-AID MEASURES**INHALATION**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Use: Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

UNUSUAL FIRE & EXPLOSION HAZARDS

May travel considerable distance to source of ignition and flash back. May form explosive or toxic mixtures with air. Vapour explosion and poison hazard indoors, outdoors and in sewers.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Fire Brigade and Local authority must be informed if this happens as a potential explosive hazard may be created. stop leak if possible without risk. Cover with dry sand or earth, do NOT use sawdust or other combustible materials. Shovel up residue and collect for authorised disposal.

SPILL CLEAN UP METHODS

Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Inform Authorities if large amounts are involved. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water. Absorb small Quantities with paper towels and evaporate in safe place (fume hood). Allow sufficient time for vapours to completely clear the hood ducts, then burn the paper in a location away from combustible materials.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. May attack some plastics, rubber and coatings.

STORAGE CLASS

Flammable liquid storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	8h TWA		STEL	
METHANOL	WEL (skin)	200 ppm	260 mg/m ³	250 ppm	310 mg/m ³
ETHANOL	WEL	1000 ppm	1900 mg/m ³		

WEL – Workplace Exposure Limit; 8h TWA – 8-hour Time-Weighted Average; STEL – Short-Term EL.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Provide explosion proof ventilation for high concentrations.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus.

HAND PROTECTION

Use protective gloves made of: Butyl rubber. Viton rubber (fluor rubber). or P.T.F.E (Teflon). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable.

OTHER PROTECTION

Provide eyewash station.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless Clear liquid		
ODOUR	Pungent odour of alcohol		
SOLUBILITY	Miscible with water. Ethanol. Ether. Benzene. Organic solvents		
BOILING POINT	~ 64°C 760 mm Hg	MELTING POINT	~ -97°C
RELATIVE DENSITY	0.79 @ 20°C	VAPOUR DENSITY (air=1)	1.11
FLASH POINT	~ 11°C	AUTO IGNITION TEMPERATURE	400°C
FLAMMABILITY LIMIT – UPPER (%)	36	FLAMMABILITY LIMIT- LOWER (%)	6.7

10. STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers. Can react vigorously with chloroform in the presence of sodium and sodium hydroxide.

HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (CO, CO₂) are formed.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 5628 mg/kg (oral rat)

INHALATION

Toxic by inhalation. Toxic: danger of very serious irreversible effects through inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Central nervous system depression.

INGESTION

Toxic if swallowed. Toxic: danger of serious damage to health by prolonged exposure if swallowed. May cause stomach pain or vomiting. Drowsiness, dizziness, disorientation, vertigo. Central nervous system depression.

SKIN CONTACT

Toxic in contact with skin. Toxic: danger of very serious irreversible effects in contact with skin.

EYE CONTACT

Irritation, burning, lachrymation, blurred vision after liquid splash.

12. ECOLOGICAL INFORMATION**ECOTOXICITY**

Not regarded as dangerous for the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION**RID / ADR**

UN#	1230
Class	3 (6.1)
PG	II
Proper shipping name:	Methanol
HazChem	2WE

IATA

UN#	1230
Class	3 (6.1)
PG	II
Proper shipping name:	Methanol

IMDG

UN#	1230
Class	3 (6.1)
PG	II
Proper shipping name:	Methanol
Marine Pollutant:	No

15. REGULATORY INFORMATION

LABELLING



Highly Flammable



Toxic

CONTAINS

METHANOL

RISK PHRASES

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SAFETY PHRASES

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)

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16. OTHER INFORMATION**GENERAL INFORMATION**

This safety data sheet covers all codes for this product.

REVISION COMMENTS

Limits adjusted.

R & S phrases amended.

REVISION DATE

07 - 2008

REV. NO./REPL. SDS GENERATED

3 / 09-2006

RISK PHRASES IN FULL

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