

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

**Product name:** METHANOL  
**CAS number:** 67-56-1  
**EINECS number:** 200-659-6  
**Index number:** 603-001-00-X  
**Synonyms:** METHYL ALCOHOL  
CARBINOL  
**Company name:** CHEMTEK LIMITED  
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## 2. HAZARDS IDENTIFICATION

**Main hazards:** 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.

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** METHANOL 100.000%

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the

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affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

**Exposure hazards:** Highly flammable. Toxic. In combustion emits toxic fumes. Vapour may travel considerable distance to source of ignition and flash back.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Notify the police and fire brigade immediately. Eliminate all sources of ignition. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

**7. HANDLING AND STORAGE**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**Suitable packaging:** Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Workplace exposure limits

**WEL (8 hr TWA):** 266 mg/m<sup>3</sup>

**WEL (15 min STEL):** 333 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is exhaust ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** Colourless

**Odour:** Characteristic odour

**Solubility in water:** Miscible

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Boiling point/range°C:** 64

**Melting point/range°C:** 97

**Flammability limits %: lower:** 6.7

**upper:** 36

**Flash point°C:** 12

**Autoflammability°C:** 400

**Relative density:** 0.79 (g/ml)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions. Stable at room temperature.

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** METHANOL

IVN RAT LD50 2131 mg/kg

ORL MUS LD50 7300 mg/kg

ORL RAT LD50 5628 mg/kg

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

**13. DISPOSAL CONSIDERATIONS**

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

<b>UN no:</b> 1230	<b>ADR Class:</b> 3
<b>Packing group:</b> II	<b>Classification code:</b> FT1
<b>Shipping name:</b> METHANOL	
<b>Labelling:</b> 3+6.1	<b>Hazard ID no:</b> 336

**IMDG / IMO**

<b>UN no:</b> 1230	<b>Class:</b> 3
<b>Packing group:</b> II	<b>EmS:</b> 3-06
<b>Marine pollutant:</b> NO	
<b>Labelling:</b> 3+6.1	

**IATA / ICAO**

<b>UN no:</b> 1230	<b>Class:</b> 3
<b>Packing group:</b> II	<b>Subsidiary risk:</b> 6.1
<b>Packing instructions:</b> 305(P&CA); 307(PAO)	
<b>Labelling:</b> 3+6.1	

**15. REGULATORY INFORMATION**

**Hazard symbols:** Highly flammable.  
Toxic.



## SAFETY DATA SHEET

METHANOL

**Risk phrases:** 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.

**Safety phrases:** 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).  
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.  
S16: Keep away from sources of ignition - No smoking.  
S24: Avoid contact with skin.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S36/37: Wear suitable protective clothing and gloves.  
S33: Take precautionary measures against static discharges.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16. OTHER INFORMATION

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.