

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL LR (METHYL ALCOHOL)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : METHANOL LR (METHYL ALCOHOL)

Product code : SS0103700500

Identification of the product : Methanol  
 CAS No: 67-56-1  
 EC No :200-659-6  
 Annex No :603-001-00-X

Chemical formula : CH<sub>4</sub>O

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : F; R11  
 T; R23/24/25-R39/23/24/25

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Category 1 - Danger (CLP : STOT SE 1) H370  
 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

##### 2.2. Label elements

**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**2. Hazards identification -DSD (continued)**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

 : F : Highly flammable  
 T : Toxic

**R 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 Phrase(s)**

 : S1/2 : Keep locked up and out of 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 when possible).

**Contains**

: Methanol

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

: Danger

**Hazard statements**

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

**Precautionary statements**
**• General**

 : P102: Keep out of reach of children.  
 P103: Read label before use.  
 P101: If medical advice is needed, have product container or label at hand.

**• Prevention**

 : P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.  
 P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.  
 P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P271: Use only outdoors or in a well-ventilated area.  
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 P233: Keep container tightly closed.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.

**• Response**

 : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  
 P307+P311: IF EXPOSED : Call a POISON CENTER or doctor.  
 P302+P352: IF ON SKIN : Wash with plenty of soap and water.

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## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL LR (METHYL ALCOHOL)

#### 2. Hazards identification -DSD (continued)

- P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
 P363: Wash contaminated clothing before reuse.  
 P361: Remove immediately all contaminated clothing.  
 P370+P378: In case of fire: Use for extinction.
- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
 P403+P235: Store in well-ventilated place. Keep cool.  
 P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
 P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Contains** : Methanol

#### 2.3. Other hazards

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

**Substance / Preparation** : Methanol

EC No :200-659-6  
 Annex No :603-001-00-X  
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Methanol	100 %	67-56-1	200-659-6	603-001-00-X	----	F; R11 T; R23/24/25-39/23/24/25 Flam. Liq. 2 _ H225 Acute Tox. 3 (skin) _ H311 Acute Tox. 3 (inhal) _ H331 Acute Tox. 3 (oral) _ H301 STOT SE 1 _ H370

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.
- Skin contact** : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**4. First aid measures (continued)**

- Eye contact** : Obtain medical attention if pain, blinking or redness persist. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

- Symptoms relating to use** : Causes damage to organ.  
 Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
 Danger of serious damage to health by prolonged exposure through inhalation.  
 Swallowing a small quantity of this material will result in serious health hazard.

**4.3. Indication of any immediate medical attention and special treatment needed**

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor. Specific treatment (see on this label).

**5. Fire-fighting measures**
**5.1. Extinguishing media**

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

- Flammable class** : Highly flammable liquid and vapour.
- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

- For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.  
 Avoid breathing dust, fume, gas, mist, vapours, spray.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**6. Accidental release measures (continued)**

Technical measures	: Use special care to avoid static electric charges.
Special precautions	: Remove ignition sources. No naked lights. No smoking.
For non-emergency personnel	: Evacuate unnecessary personnel.

**6.2. Environmental precautions**

Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
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**6.3. Methods and material for containment and cleaning up**

Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.
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**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

Handling	: Handle empty containers with care because residual vapours are flammable. Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
Special precautions	: No naked lights. No smoking.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

**7.3. Specific end use(s)**

Specific end use(s)	: None.
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**8. Exposure controls/personal protection**
**8.1. Exposure controls**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**8. Exposure controls/personal protection (continued)**

<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Eye protection</b>	: Chemical goggles or safety glasses.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: No data available.
<b>VLA-ED [ppm]</b>	: 200
<b>VLA-ED [mg/m<sup>3</sup>]</b>	: 266
<b>VLA-EC [ppm]</b>	: 250
<b>VLA-EC [mg/m<sup>3</sup>]</b>	: 333
<b>ILV (EU) - 8 H - [ppm]</b>	: ( 200 Skin. )
<b>ILV (EU) - 8 H - [mg/m<sup>3</sup>]</b>	: ( 260 Skin. )
<b>OEL (UK)-LTEL [ppm]</b>	: 200
<b>OEL (UK)-STEL [ppm]</b>	: 250

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

<b>Physical state at 20 °C</b>	: Liquid.
<b>Colour</b>	: Colourless
<b>Odour</b>	: Characteristic
<b>Odour threshold</b>	: No data available.
<b>pH value</b>	: No data available.
<b>Melting point [°C]</b>	: -98
<b>Decomposition point [°C]</b>	: N/A
<b>Critical temperature [°C]</b>	: N/A
<b>Auto-ignition temperature [°C]</b>	: N/A
<b>Flammability (solid, gas)</b>	: Highly flammable liquid and vapour.
<b>Flash point [°C]</b>	: 11
<b>Boiling point [°C]</b>	: 65
<b>Initial boiling point [°C]</b>	: N/A
<b>Final boiling point [°C]</b>	: N/A
<b>Evaporation rate</b>	: N/A
<b>Vapour pressure [20°C]</b>	: 96.5 (20° C)
<b>Vapour pressure mm/Hg</b>	: 96.5 (20° C)

**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**9. Physical and chemical properties (continued)**

Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 0.8
Relative density, gas (air=1)	: 1.1
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Complete.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: 36.5
Explosion limits - lower [%]	: 5.5
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
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**10.5. Incompatible materials**

Materials to avoid	: Strong acids. Strong bases.
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**10.6. Hazardous decomposition products**

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- Inhalation : Toxic if inhaled.
- Dermal : Toxic in contact with skin.
- Ingestion : Toxic if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Based on available data, the classification criteria are not met.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Causes damage to organ.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Not established.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**Mobility in soil** : Not established.

**Log Pow octanol / water at 20°C** : -0.7

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**13. Disposal considerations**
**13.1. Waste treatment methods**

<b>General</b>	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
<b>Special precautions</b>	: Hazardous waste due to toxicity. Handle empty containers with care because residual vapours are flammable.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

<b>Proper shipping name</b>	: METHANOL
<b>UN N°</b>	: 1230
<b>H.I. nr</b>	: 336
<b>ADR - Class</b>	: 3
<b>Labelling - Transport</b>	: 3 : Flammable liquid. 6.1 : Toxic substances.



<b>ADR - Classification code</b>	: FT1
<b>ADR - Group</b>	: II
<b>ADR - Packing instructions</b>	: P001
<b>ADR - Limited Quantity</b>	: 1 L
<b>ADR - Tunnel code</b>	: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.


**14.2. Sea transport (IMDG) [English only]**

<b>Proper shipping name</b>	: METHANOL
<b>UN N°</b>	: 1230
<b>IMO-IMDG - Class or division</b>	: 3 : Flammable liquid. ( 6.1 : Toxic substances. )
<b>IMO-IMDG - Packing group</b>	: II
<b>IMO-IMDG - Packing instructions</b>	: P001
<b>IMO-IMDG - Limited quantities</b>	: 1 L
<b>IMO-IMDG - Marine pollution</b>	: No

**MATERIAL SAFETY DATA SHEET (MSDS)**
**METHANOL LR (METHYL ALCOHOL)**
**14. Transport information (continued)**

EMS-Nr : F-E S-D

**14.3. Air transport (ICAO-IATA) [English only]**

Proper shipping name : METHANOL  
 UN N° : 1230  
 IATA - Class or division : 3 : Flammable liquid. ( 6.1 : Toxic substances. )  
 IATA - Packing group : II  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
   - Passenger and Cargo - Packing : 352  
 instruction  
   - Passenger and Cargo - Maximum : 1 L  
 Quantity/Packing  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 364  
   - Cargo only - Maximum Quantity/ : 60 L  
 Packing  
 IATA - Limited Quantities : 1 L  
 ERG-Nr : 3L

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.  
 REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.  
 REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

Chemical Safety Assessment : It has not been carried out.

**16. Other information**

Revision : Revision - See : \*  
 Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.  
   vPvB: very persistent and very bioaccumulative  
 Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006  
 List of relevant R phrases (heading 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,

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL LR (METHYL ALCOHOL)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

#### DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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