Material Safety Data Sheet

Section 1 - Chemical Product
Product Name: Trimethylol propane
Synonym: 1,1,1-Trimethylolpropane; 2-Ethyl-2-(hydroxymethyl)-1,3-propanediol
CAS: 77-99-6
Supplier: Jiangxi Kosin Organic Chemical Co., Ltd.
Phone number: +86 794-7907199  Fax: +86 794-7907188

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS
<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>content</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-99-6</td>
<td>2-Ethyl-2-(hydroxymethyl)-1,3-propanediol</td>
<td>98%</td>
<td>201-074-9</td>
</tr>
</tbody>
</table>

Hazard Symbols: None Listed.
Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW
Hygroscopic (absorbs moisture from the air).
Potential Health Effects
Eye:
May cause eye irritation.
Skin:
May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion:
May cause irritation of the digestive tract.
Inhalation:
May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:
Not available.

Section 4 - FIRST AID MEASURES
Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:
Get medical aid. Wash mouth out with water.
Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:
Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES
General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:
Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - ACCIDENTAL RELEASE MEASURES
General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - HANDLING and STORAGE
Handling:
Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage:
Store in a cool, dry place. Store in a tightly closed container.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION
Engineering Controls:
Use adequate ventilation to keep airborne concentrations low.
Exposure Limits CAS# 77-99-6: Netherlands: 5 mg/m3 MAC Russia: 50 mg/m3 TWA Personal Protective Equipment Eyes: Not available.
Skin:
Wear appropriate protective gloves to prevent skin exposure.
Clothing:
Wear appropriate protective clothing to prevent skin exposure.
Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES
Physical State: Flakes
Color: white
Odor: faint odor
pH: 4-7 (25% aq.sol.)
Vapor Pressure: < 10 Pa @ 50 deg C
Viscosity: 157 cP @ 75 deg C
Boiling Point: 160 deg C @0.7hPa
Freezing/Melting Point: 56-60 deg C
Autoignition Temperature: 414 deg C (777.20 deg F)
Flash Point: 172 deg C (341.60 deg F)
Explosion Limits, lower: 2 vol %
Explosion Limits, upper: 11.8 vol %
Decomposition Temperature:
Solubility in water: Freely Soluble.
Specific Gravity/Density:
Molecular Formula: C6H14O3
Molecular Weight: 134.18

Section 10 - STABILITY AND REACTIVITY
Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, exposure to moist air or water.
Incompatibilities with Other Materials:
Strong oxidizing agents.
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION
RTECS#:
CAS# 77-99-6: TY6470000 LD50/LC50:
CAS# 77-99-6: Oral, mouse: LD50 = 13700 mg/kg; Oral, mouse: LD50 = 14000 mg/kg; Oral, rat: LD50 = 14100 mg/kg; Oral, rat: LD50 = 14000 mg/kg.
Carcinogenicity:
2-Ethyl-2-(hydroxymethyl)-1,3-propanediol - Not listed by ACGIH, IARC, or NTP.
Other:
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION
Other No information available.
Section 13 - DISPOSAL CONSIDERATIONS
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA: Not regulated as a hazardous material.
IMO: Not regulated as a hazardous material.
RID/ADR: Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 77-99-6: 1
Canada
CAS# 77-99-6 is listed on Canada’s DSL List.
CAS# 77-99-6 is not listed on Canada’s Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 77-99-6 is listed on the TSCA inventory.

16. OTHER INFORMATION

Further information
we granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the Product. We shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.