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Material Safety Data Sheet

Methoxy propanol (PM)

Section 1 : Chemical Product and Company Identification

Product Name: Methoxy propanol
CAS#: 107-98-2
Synonym: 1-methoxy-2-propanol
Alpha-propylene glycol monomethyl ether; Alpha PGME
Propylene glycol monoethyl ether
Chemical Formula: C₅H₁₂O₂
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS # %	By Weight
Mthoxy propanol	107-98-2	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Colourless highly flammable liquid with sweet odour, Dangerous fire and explosion hazard. Avoid heat, sparks, and flame, flash back may occur from vapours to a source of ignition. May cause eye, skin, respiratory tract and digestive tract irritation.
For short and long term exposure effects see section 1 1 Toxicological data.

Section 4: First Aid Measures

【Ingestion】

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

【Inhalation】

Get medical aid immediately. Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

【Skin】

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

【Eyes】

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Appearance】 Clear, colorless liquid

【Solubility in water】 Soluble

【Freezing Point】 -97 -143

【Boiling Point】 119

【Vapor Pressure】 14.5 (25 C)

【Density】 0.92 g/cm³ (20 C)

【Flash point】 33

Auto Ignition 286

【Vapor Density】 3.59

【Refractive Index】 0.92

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 20700 mg/kg [Mouse]. Acute dermal toxicity (LD50): 20001 mg/kg [Rabbit].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Class3 , Packing group III. UN.number : 3092 Flammable Liquid

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information
<p>Federal and State Regulations: TSCA 8(b) inventory: Propylene carbonate</p> <p>Other Regulations: Not available..</p> <p>Other Classifications:</p> <p>WHMIS (Canada): Not controlled under WHMIS (Canada).</p> <p>DSCL (EEC): R36/38- Irritating to eyes and skin.</p> <p>HMIS (U.S.A.):</p> <p>Health Hazard: 1</p> <p>Fire Hazard: 1</p> <p>Reactivity: 0</p> <p>Personal Protection: h</p> <p>National Fire Protection Association (U.S.A.):</p> <p>Health: 1</p> <p>Flammability: 1</p> <p>Reactivity: 0</p> <p>Specific hazard:</p> <p>Protective Equipment:</p> <p>Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.</p>

Section 16: Other Information
<p>Reversion Date: June 01, 2021</p> <p>Version No.: 20120601002</p>

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