

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

Material Safety Data Sheet (MSDS)

Methyl Acetoacetate

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

• Product Name: Methyl Acetoacetate

• Chemical Formula: C5H8O3

• CAS No: 105-45-3

• Synonyms: Acetoacetic acid methyl ester

• Recommended Use: Intermediate in the manufacture of pharmaceuticals, agrochemicals, and

fine chemicals.

Section 2: Hazards Identification

- Classification (GHS): Flammable Liquid; Acute Toxicity Oral; Skin Irritant; Eye Irritant
- Signal Word: Warning
- Hazard Statements:
 - Flammable liquid and vapor
 - Harmful if swallowed
 - Causes skin irritation
 - Causes serious eye irritation
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• Precautionary Statements:

- Keep away from heat, sparks, open flames, and hot surfaces
- Wear protective gloves, protective clothing, and eye protection
- Wash thoroughly after handling
- Do not eat, drink, or smoke when using this product
- IF ON SKIN: Wash with plenty of water; if irritation persists, get medical advice
- IF IN EYES: Rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

• Concentration: 98%

Section 4: First Aid Measures

- Inhalation: Remove person to fresh air. If breathing difficulty occurs, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth with water. Do not induce vomiting. Seek immediate medical advice.

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Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, carbon dioxide, water spray.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Combustion may release carbon oxides and irritating fumes.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate ignition sources. Avoid inhalation of vapors and contact with skin/eyes. Wear protective equipment.
- Environmental Precautions: Prevent release into drains and waterways.
- Cleanup Methods: Contain and absorb with inert material (sand/earth). Collect into suitable containers for disposal. Wash spill area with detergent and water.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors. Avoid contact with skin and eyes. Use in well-ventilated areas. Ground/bond containers and equipment.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat, sparks, and open flame.

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Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not established.
- Engineering Controls: Provide adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing. Respiratory protection if ventilation is inadequate.

Section 9: Physical and Chemical Properties

• Appearance: Colorless to pale yellow liquid

Odor: Fruity odor
Boiling Point: 170 °C
Flash Point: 70 °C

• Solubility: Slightly soluble in water; soluble in alcohol and organic solvents

• Molecular Weight: 116.12 g/mol

Section 10: Stability and Reactivity

- Stability: Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, bases.
- Hazardous Decomposition Products: Carbon oxides.
- Conditions to Avoid: Heat, flames, sparks, static discharge.



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Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Harmful if swallowed. Causes skin and eye irritation. Oral LD50 (rat): ~1,320 mg/kg.
- Chronic Effects: Prolonged or repeated exposure may cause dermatitis or liver/kidney effects.

Section 12: Ecological Information

- Ecotoxicity: Harmful to aquatic life.
- Persistence and Degradability: Expected to be biodegradable.
- Bioaccumulative Potential: Low to moderate.
- Mobility in Soil: Moderate mobility due to partial water solubility.

Section 13: Disposal Considerations

• Dispose of product/container in accordance with local/regional/national regulations. Do not release to the environment. Incineration under controlled conditions preferred.

Section 14: Transport Information

• UN Number: UN3272

Proper Shipping Name: Methyl Acetoacetate

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Hazard Class: 3Packing Group: III

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous under GHS for flammability, acute toxicity, skin/eye irritation.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.

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