

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)

### **Acetoin**

Revision Date: 26-September-2025

Version: 1.0

#### Section 1: Product Identification

• Product Name: Acetoin

• Chemical Formula: C4H8O2

• CAS No: 513-86-0

• Synonyms: 3-Hydroxy-2-butanone; Acetylmethylcarbinol

• Recommended Use: Used as a flavoring agent in food, fragrance ingredient, and chemical

intermediate.

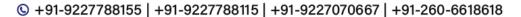
#### Section 2: Hazards Identification

• Classification (GHS): Eye Irritant; Skin Irritant

• Signal Word: Warning

• Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- Precautionary Statements:
  - Avoid contact with skin and eyes
  - Wear protective gloves, protective clothing, and eye protection
  - Wash thoroughly after handling



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- 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: 95%

#### Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If respiratory irritation or discomfort 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 medical advice if unwell.

## Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide.
- Specific Hazards: Combustible liquid; emits carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

#### Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of vapors and contact with skin/eyes. Ensure proper ventilation. Wear protective equipment.
- Environmental Precautions: Prevent release into drains and waterways.
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• Cleanup Methods: Absorb with inert material. Collect into suitable containers for disposal. Wash spill area thoroughly 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.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and ignition sources.

### Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not established.
- Engineering Controls: Provide adequate ventilation.
- **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: Buttery odorBoiling Point: 148 °C

• Flash Point: 57 °C (closed cup)

• Solubility: Miscible with water, alcohol, and organic solvents

• Molecular Weight: 88.11 g/mol

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### Section 10: Stability and Reactivity

- Stability: Stable under recommended storage and handling conditions.
- Incompatible Materials: Strong oxidizing agents.
- Hazardous Decomposition Products: Carbon oxides.
- Conditions to Avoid: Heat, flames, sparks, and prolonged exposure to light.

### Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Causes skin and eye irritation. Oral LD50 (rat): ~3,300 mg/kg.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or respiratory irritation.

### Section 12: Ecological Information

- Ecotoxicity: Low toxicity to aquatic life.
- Persistence and Degradability: Expected to be biodegradable.
- Bioaccumulative Potential: Low potential.
- Mobility in Soil: High mobility due to water solubility.

# Section 13: Disposal Considerations

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



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#### Section 14: Transport Information

• UN Number: UN2621

• Proper Shipping Name: Acetoin

Hazard Class: 3Packing Group: III

### Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified under GHS for irritation hazards.
- 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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