

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)

### 3-Pentanone

Revision Date: 23-September-2025

Version: 1.0

### Section 1: Product Identification

• Product Name: 3-Pentanone

• Chemical Formula: C5H10O

• CAS No: 96-22-0

• Synonyms: Diethyl ketone; Ethyl propyl ketone

• **Recommended Use:** Laboratory chemical; solvent; intermediate in organic synthesis.

### Section 2: Hazards Identification

- Classification (GHS): Flammable liquids (Category 2); Eye irritation (Category 2A); Specific target organ toxicity single exposure (Category 3, narcotic effects).
- Signal Word: Danger
- Hazard Statements:



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- Highly flammable liquid and vapor
- Causes serious eye irritation
- May cause drowsiness or dizziness
- Keep away from heat/sparks/open flames. No smoking
- Use explosion-proof equipment and proper ventilation
- Wear protective gloves/eye protection
- **IF INHALED:** Remove person to fresh air and keep at rest in a comfortable position for breathing

## Section 3: Composition / Information on Ingredients

• Concentration: 100%

#### Section 4: First Aid Measures

- Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Seek immediate medical advice.

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### Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide (CO2); water spray.
- **Specific Hazards:** Highly flammable liquid; vapors may form explosive mixtures with air; emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

#### Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Eliminate ignition sources. Avoid breathing vapors. Ensure adequate ventilation.
- Environmental Precautions: Prevent entry into drains and waterways.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable container for disposal. Use non-sparking tools.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use only in well-ventilated areas. Keep away from ignition sources.
- **Storage:** Keep container tightly closed. Store 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: OSHA PEL: 200 ppm (TWA); ACGIH TLV: 200 ppm (TWA).
- Engineering Controls: Provide adequate ventilation, explosion-proof equipment, and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respiratory protection if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

• Appearance: Colorless liquid

• Odor: Sweet, acetone-like odor

• Boiling Point: 102 °C

• Flash Point: 7 °C (closed cup)

• Solubility: Slightly soluble in water; miscible with most organic solvents

• Molecular Weight: 86.13 g/mol

## Section 10: Stability and Reactivity

- Stability: Stable under recommended storage conditions.
- Incompatible Materials: Strong oxidizing agents, acids.

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• Hazardous Decomposition Products: Carbon oxides under fire conditions.

## Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Causes eye irritation; may cause drowsiness, dizziness, and respiratory irritation.
- Chronic Effects: Prolonged exposure may affect the liver, kidneys, and central nervous system.

### Section 12: Ecological Information

- Ecotoxicity: Toxic to aquatic organisms in high concentrations.
- Persistence and Degradability: Expected to be biodegradable.
- Bioaccumulative Potential: Low to moderate potential.

## Section 13: Disposal Considerations

• Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

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### Section 14: Transport Information

• UN Number: UN1156

• Proper Shipping Name: Acetone oils (3-Pentanone)

• Hazard Class: 3 (Flammable liquid)

Packing Group: II

## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

### Section 16: Other Information

• **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.

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