

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)

# **Diacetyl**

Revision Date: 29-August-2025

Version: 1.0

# Section 1: Product Identification

• Product Name: Diacetyl

• Chemical Formula: C4H6O2

• CAS No: 431-03-8

• Synonyms: 2,3-Butanedione, Biacetyl

• **Recommended Use:** Used as a flavoring agent (buttery flavor), in food, fragrance, and chemical synthesis.

#### Section 2: Hazards Identification

- Classification (GHS): Acute Toxicity (Inhalation, Category 3), Skin Irritant (Category 2), Eye Irritant (Category 2A), Respiratory Sensitizer (Category 1).
- Signal Word: Danger
- Hazard Statements:
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- Toxic if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory sensitization and lung damage
- Precautionary Statements:
  - Avoid breathing vapors
  - Use only in well-ventilated areas or with respiratory protection
  - Wear protective gloves, clothing, and eye protection
  - Wash thoroughly after handling

# Section 3: Composition / Information on Ingredients

• Chemical Name: Diacetyl

• Synonyms: 2,3-Butanedione, Biacetyl

• CAS Number: 431-03-8

• **Concentration:** ≥ 99% (typical commercial grade)

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# Section 4: First Aid Measures

- Inhalation: Remove to fresh air immediately. Seek urgent medical attention if breathing difficulty occurs.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical attention.
- Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

#### Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO2).
- **Specific Hazards:** Flammable liquid and vapor. 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 protective equipment. Avoid inhalation of vapors. Ensure adequate ventilation.
- Environmental Precautions: Prevent entry into drains, soil, and water bodies.
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• Cleanup Methods: Absorb with inert material (sand, earth). Place in suitable container for proper disposal.

# Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors. Avoid contact with skin, eyes, and clothing. Use only in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Keep away from ignition sources.

# Section 8: Exposure Controls / Personal Protection

- Exposure Limits: ACGIH TLV: 0.01 ppm (TWA); OSHA: Not established.
- **Engineering Controls:** Provide adequate ventilation, fume hood, and explosion-proof equipment.
- **Personal Protective Equipment:** Protective gloves, goggles, lab coat, and appropriate respirator.

# Section 9: Physical and Chemical Properties

Appearance: Yellow-green liquid

Odor: Strong buttery odor

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• Boiling Point: 88 °C

• Melting Point: -2 °C

• Flash Point: 15 °C (closed cup)

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

• Molecular Weight: 86.09 g/mol

## Section 10: Stability and Reactivity

- Stability: Stable under recommended storage conditions.
- Incompatible Materials: Strong oxidizing agents, strong bases.
- Hazardous Decomposition Products: Carbon oxides under fire conditions.

# Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin, and eye contact.
- Acute Effects: Toxic if inhaled. Causes skin and eye irritation. May cause respiratory distress and lung damage.
- Chronic Effects: Long-term exposure linked to bronchiolitis obliterans (serious lung disease).

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## Section 12: Ecological Information

- Ecotoxicity: Harmful to aquatic life at high concentrations.
- Persistence and Degradability: Readily biodegradable in the environment.
- Bioaccumulative Potential: Low potential for bioaccumulation.

## Section 13: Disposal Considerations

• Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

## **Section 14: Transport Information**

• UN Number: 2346

• Proper Shipping Name: Diacetyl

• Hazard Class: 3

• Packing Group: II

# Section 15: Regulatory Information

• Complies with Indian chemical safety regulations and international inventories (TSCA, EINECS, etc.).

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• Classified as hazardous substance under 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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