

Material Safety Data Sheet (MSDS)

Isobutyraldehyde

CAS Number: 78-84-2

Prepared by: Triveni Chemicals

Revision Date: 25-June-2025

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Isobutyraldehyde

Synonyms: 2-Methylpropanal

Recommended Use: Chemical intermediate, laboratory reagent


Supplier:

Triveni Chemicals


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SECTION 2: Hazards Identification

GHS Classification:

- Flammable liquid (Category 2), H225
- Acute toxicity, oral (Category 4), H302
- Skin irritation (Category 2), H315
- Eye irritation (Category 2A), H319
- Specific target organ toxicity — single exposure (Category 3), H335

Signal Word: *Danger*

Hazard Statements:

- H225: Highly flammable liquid and vapor
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames
- P261: Avoid breathing vapors
- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/eye protection

- P301+P312: IF SWALLOWED: Call a doctor/poison center if you feel unwell
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do — continue rinsing
- P337+P313: If eye irritation persists: Get medical advice/attention
- P403+P233: Store in a well-ventilated place. Keep container tightly closed

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Content
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Isobutyraldehyde	78-84-2	≥98%
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SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms develop.
- **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 at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if feeling unwell.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam

Specific Hazards: Vapors may form explosive mixtures with air

Protective Equipment: Use SCBA and protective clothing

SECTION 6: Accidental Release Measures

Personal Precautions: Wear gloves, goggles. Ensure adequate ventilation. Remove all ignition sources.

Environmental Precautions: Prevent entry into drains or waterways

Cleanup Methods: Absorb with inert material (e.g. sand), place in sealed containers, dispose of according to local regulations

SECTION 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Use in well-ventilated areas. Keep away from ignition sources.

Storage: Store tightly closed in a cool, dry, well-ventilated place away from heat, sparks, or open flames

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

- ACGIH TLV: 25 ppm (TWA)

Engineering Controls: Provide local exhaust ventilation

Personal Protective Equipment (PPE):

- Protective gloves
- Safety goggles
- Protective clothing

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Colorless liquid
Odor	Pungent, unpleasant
Boiling Point	63 °C

Property	Value
Melting Point	-65 °C
Flash Point	-24 °C (closed cup)
Autoignition Temperature	180 °C
Density	~0.79 g/cm ³
Solubility	Slightly soluble in water

SECTION 10: Stability and Reactivity

Stability: Stable under recommended conditions

Incompatibility: Strong oxidizing agents, acids, bases

Decomposition Products: Carbon monoxide, carbon dioxide

Reactivity: May form peroxides on prolonged exposure to air

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SECTION 11: Toxicological Information

- **Oral LD₅₀ (Rat):** 370 mg/kg
- **Skin Effects:** Causes irritation
- **Eye Effects:** Causes irritation
- **Respiratory Effects:** May cause coughing, dizziness, respiratory irritation

SECTION 12: Ecological Information

- **Biodegradability:** Expected to be readily biodegradable
- **Aquatic Toxicity:** Low to moderate hazard
- **Bioaccumulation:** Low potential

SECTION 13: Disposal Considerations

Dispose of product and container in accordance with local, regional, and national regulations. Avoid release to the environment.

SECTION 14: Transport Information

- **UN Number:** 1129
- **Proper Shipping Name:** Isobutyraldehyde
- **Hazard Class:** 3
- **Packing Group:** II

SECTION 15: Regulatory Information

- TSCA listed (US)
- Complies with MSIHC Rules (India)
- Not listed under REACH SVHC

SECTION 16: Other Information

Prepared By: Triveni Chemicals, Regulatory Affairs Department

Disclaimer:

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