

Material Safety Data Sheet (MSDS)

Propionaldehyde

CAS Number: 123-38-6

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: Propionaldehyde

Synonyms: Propanal, Propionic aldehyde

Recommended Use: Chemical intermediate, flavoring agent, fragrance intermediate


Supplier:

Triveni Chemicals


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SECTION 2: Hazards Identification

GHS Classification:

- Flammable liquid (Category 2), H225
- Acute toxicity, inhalation (Category 4), H332
- 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
- H319: Causes serious eye irritation
- H332: Harmful if inhaled
- H335: May cause respiratory irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames
- P261: Avoid breathing vapors
- P271: Use only outdoors or in a well-ventilated area
- P280: Wear protective gloves/eye protection
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- 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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Propionaldehyde	123-38-6	≥99%
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SECTION 4: First-Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: Dry chemical, carbon dioxide, alcohol-resistant foam

Specific Hazards: Vapors may form explosive mixtures with air; emits toxic fumes of carbon oxides when burned

Protective Equipment: Wear SCBA and full protective clothing

SECTION 6: Accidental Release Measures

Personal Precautions: Wear gloves, goggles, flame-resistant protective clothing. Ensure adequate ventilation. Remove ignition sources.

Environmental Precautions: Prevent entry into drains, surface water, or soil

Cleanup Methods: Absorb with inert material (e.g., sand), place in a properly labeled container for disposal according to local regulations

SECTION 7: Handling and Storage

Handling: Avoid contact with skin, eyes, and clothing. Use in a well-ventilated area. Keep away from sources of ignition.

Storage: Store tightly closed in a cool, dry, well-ventilated area away from heat and oxidizing agents

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

- ACGIH TLV: 20 ppm (TWA)

Engineering Controls: Local exhaust ventilation recommended

Personal Protective Equipment (PPE):

- Protective gloves
- Safety goggles
- Protective clothing
- Respirator if ventilation is insufficient

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Colorless liquid
Odor	Stench
Boiling Point	48 °C
Melting Point	-81 °C
Flash Point	-30 °C (closed cup)
Autoignition Temperature	195 °C
Density	0.8 g/cm ³
Solubility	Soluble in water

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage conditions

Incompatibility: Strong oxidizers, acids, bases **Decomposition Products:** Carbon monoxide, carbon dioxide **Reactivity:** May form peroxides on prolonged storage in air

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SECTION 11: Toxicological Information

- **Oral LD₅₀ (Rat):** ~1700 mg/kg
- **Skin Effects:** May cause irritation
- **Eye Effects:** Causes serious irritation
- **Respiratory Effects:** Vapors may cause irritation, coughing, dizziness

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 according to local, regional, and national regulations.
Avoid release to the environment.

SECTION 14: Transport Information

- **UN Number:** 1275
- **Proper Shipping Name:** Propionaldehyde
- **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.