

Material Safety Data Sheet (MSDS)

Hexanal

CAS Number: 66-25-1

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: Hexanal

Synonyms: Caproaldehyde, Hexyl aldehyde

Recommended Use: Flavor and fragrance ingredient, chemical intermediate

Supplier:

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SECTION 2: Hazards Identification

GHS Classification:

- Flammable liquid (Category 3), H226
- Acute toxicity, oral (Category 4), H302
- Eye irritation (Category 2A), H319

Signal Word: *Warning*

Hazard Statements:

- H226: Flammable liquid and vapor
- H302: Harmful if swallowed
- H319: Causes serious eye irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames
- P264: Wash hands thoroughly after handling
- P270: Do not eat, drink, or smoke while using this product
- P280: Wear protective gloves/eye protection
- P301+P312: IF SWALLOWED: Call a doctor 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

SECTION 3: Composition/Information on Ingredients

Component CAS No. Content

Hexanal 66-25-1 ≥98%

SECTION 4: First-Aid Measures

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

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide

Specific Hazards: Vapors may form explosive mixtures with air

Protective Equipment: Use SCBA and protective clothing

SECTION 6: Accidental Release Measures

Personal Precautions: Use protective gloves and goggles. Ensure good ventilation. Avoid ignition sources.

Environmental Precautions: Avoid release to drains or waterways

Cleanup Methods: Absorb with inert material. Dispose of in accordance with 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 area away from heat or open flames

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits: Not established

Engineering Controls: Local exhaust recommended

Personal Protective Equipment (PPE):

- Protective gloves
- Safety goggles
- Protective clothing

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	liquid
Odor	Fatty, green, grassy
Boiling Point	128–130 °C
Melting Point	–56 °C
Flash Point	25 °C (closed cup)
Autoignition Temperature	~205 °C
Density	0.814 g/cm ³ at 25 °C
Solubility	Not determined

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage conditions

Incompatibility: Strong oxidizers, acids

Decomposition Products: Carbon monoxide, carbon dioxide

Reactivity: No hazardous polymerization known

SECTION 11: Toxicological Information

- **Oral LD₅₀ (Rat):** ~1200 mg/kg
- **Skin Effects:** May cause mild irritation
- **Eye Effects:** Causes irritation
- **Respiratory Effects:** Vapors may cause irritation

SECTION 12: Ecological Information

- **Biodegradability:** Readily biodegradable
- **Aquatic Toxicity:** Low to moderate hazard to aquatic life
- **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:** 1987
- **Proper Shipping Name:** Alcohols, n.o.s. (contains Hexanal)
- **Hazard Class:** 3
- **Packing Group:** III

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:

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