

Material Safety Data Sheet (MSDS)

2-Methylbutylamine

Revision Date: 29-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** 2-Methylbutylamine
- **Chemical Formula:** C₅H₁₃N
- **CAS No:** 96-15-1
- **Synonyms:** Isoamylamine; Isopentylamine
- **Recommended Use:** Used as an intermediate in pharmaceuticals, agrochemicals, and organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid; Acute Toxicity Oral; Skin Corrosion/Irritation; Eye Damage
- **Signal Word:** Danger
- **Hazard Statements:**
 - Flammable liquid and vapor
 - Harmful if swallowed
 - Causes skin irritation

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- Causes serious eye damage
- **Precautionary Statements:**
 - Keep away from heat, sparks, and open flames
 - Wear protective gloves, clothing, and eye protection
 - Wash thoroughly after handling
 - IF ON SKIN: Wash with plenty of water
 - IF IN EYES: Rinse cautiously with water for several minutes and seek medical attention

Section 3: Composition / Information on Ingredients

- **Concentration:** 98%

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If breathing is difficult, give oxygen and seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek immediate medical attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Alcohol-resistant foam, dry chemical, carbon dioxide, water spray.
- **Specific Hazards:** Flammable liquid and vapor. Emits nitrogen oxides and carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of vapors and contact with skin and eyes. Ensure adequate ventilation. Remove all sources of ignition.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect into suitable containers for disposal. Wash contaminated surfaces with detergent and water.

Section 7: Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Use with adequate ventilation. Keep away from ignition sources.
- **Storage:** Store in a cool, dry, well-ventilated area in tightly closed containers away from heat, sparks, and strong oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide proper ventilation.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing. Use respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Strong amine-like odor
- **Boiling Point:** 94 - 97 °C
- **Melting Point:** -70 °C
- **Flash Point:** 8 °C (closed cup)
- **Solubility:** Miscible with water and organic solvents
- **Molecular Weight:** 87.16 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended handling and storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids.
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides.
- **Conditions to Avoid:** Heat, sparks, open flames.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes severe eye irritation and skin irritation. Harmful if swallowed.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or respiratory tract irritation.
- **Toxicity Data:** Oral LD50 (rat) ~300 mg/kg.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** High due to water solubility.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** UN2733
- **Proper Shipping Name:** Amines, liquid, corrosive, flammable, n.o.s. (2-Methylbutylamine)

- **Hazard Class:** 3 (Flammable liquids) / 8 (Corrosive substances)
- **Packing Group:** II

Section 15: Regulatory Information

- Listed on chemical inventories (TSCA, EINECS).
- Classified as hazardous under GHS for flammability, toxicity, and irritation.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

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