

Material Safety Data Sheet (MSDS)

Hexanoic Acid

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Hexanoic Acid
- **Chemical Formula:** C₆H₁₂O₂
- **CAS No:** 142-62-1
- **Synonyms:** Caproic acid; n-Hexanoic acid
- **Recommended Use:** Intermediate in chemical synthesis, flavors, fragrances, plasticizers, and lubricants.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Corrosion/Irritation (Category 2); Eye Irritation (Category 2A)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
- **Precautionary Statements:**
 - Wear protective gloves, protective clothing, and eye/face protection
 - Wash thoroughly after handling

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- If on skin: wash with plenty of water
- If in eyes: rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 98\%$

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If breathing is difficult, seek medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO_2).
- **Specific Hazards:** Combustion may produce carbon oxides and irritating fumes.
- **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/eyes. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand/earth). Collect into suitable containers for disposal. Wash area thoroughly.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin and eyes. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and direct sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Chemical-resistant gloves, goggles, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to clear, liquid
- **Odor:** Stench
- **Boiling Point:** 204 - 205 °C
- **Flash Point:** 102 °C (closed cup)
- **Solubility:** Slightly soluble in water; miscible with alcohol and organic solvents
- **Molecular Weight:** 116.16 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended handling and 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, skin and eye contact, ingestion.
- **Acute Effects:** Causes irritation to skin and eyes. Oral LD50 (rat): ~3,000 mg/kg.
- **Chronic Effects:** Repeated or prolonged exposure may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic organisms in high concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.
- **Mobility in Soil:** Mobile; may leach into groundwater.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** UN2829
- **Proper Shipping Name:** Hexanoic Acid
- **Hazard Class:** 8
- **Packing Group:** III

Section 15: Regulatory Information

- Listed on major chemical inventories (TSCA, EINECS, etc.). Complies with Indian chemical safety regulations.
- Classified as hazardous under GHS as noted above.

Section 16: Other Information

Disclaimer: The 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 liability for damage resulting from handling or contact.

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