

Material Safety Data Sheet (MSDS)

Heptanoic Acid

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Heptanoic Acid
- **Chemical Formula:** C₇H₁₄O₂
- **CAS No:** 111-14-8
- **Synonyms:** Enanthic acid; n-Heptanoic acid
- **Recommended Use:** Intermediate in chemical synthesis, plasticizers, lubricants, esters for flavors and fragrances.

Section 2: Hazards Identification

- **Classification (GHS):** Skin 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 with soap and water. Seek medical advice 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 medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Combustion produces 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 entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand/earth). Collect into suitable containers for disposal. Wash spill area thoroughly.

Section 7: Handling and Storage

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

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Chemical-resistant gloves, protective goggles, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow oily liquid
- **Odor:** Slight, unpleasant odor
- **Boiling Point:** 223 °C
- **Flash Point:** 113 °C (closed cup)
- **Solubility:** Slightly soluble in water; miscible with most organic solvents
- **Molecular Weight:** 130.19 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage and handling 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 skin and eye irritation. Oral LD50 (rat): ~1,700 mg/kg. Dermal LD50 (rabbit): >5,000 mg/kg.
- **Chronic Effects:** Prolonged or repeated 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 in soil; may leach to groundwater.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** UN3265
- **Proper Shipping Name:** Heptanoic Acid
- **Hazard Class:** 8
- **Packing Group:** II

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.

Section 16: Other Information

Disclaimer: The above 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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