

Material Safety Data Sheet (MSDS)

2-Acetonaphthone

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** 2-Acetonaphthone
- **Chemical Formula:** C₁₂H₁₀O
- **CAS No:** 93-08-3
- **Synonyms:** α-Acetonaphthone; 2-Acetylnaphthalene
- **Recommended Use:** Used as an intermediate in the manufacture of fragrances, pharmaceuticals, and fine chemicals.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant; Eye Irritant
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
- **Precautionary Statements:**
 - Avoid contact with skin and eyes

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- Wear protective gloves, protective clothing, and eye protection
- Wash thoroughly after handling
- IF ON SKIN: Wash with plenty of water; if irritation persists, seek medical advice
- IF IN EYES: Rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

- **Concentration:** 95%

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If respiratory irritation or discomfort occurs, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Combustible solid. Emits 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 dust/vapors and contact with skin/eyes. Ensure proper ventilation. Use protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Sweep or absorb with inert material. Collect in suitable containers for disposal. Wash spill area with water and detergent.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors or dust. Avoid contact with skin and eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and ignition sources.

Section 8: Exposure Controls / Personal Protection

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

Section 9: Physical and Chemical Properties

- **Appearance:** Pale yellow crystalline solid
- **Odor:** Mild aromatic odor
- **Boiling Point:** 300 - 301 °C
- **Melting Point:** 52 - 56 °C
- **Flash Point:** 168 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in alcohol, ether, and organic solvents
- **Molecular Weight:** 170.21 g/mol

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation. Oral LD50 (rat): 1,650 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or respiratory irritation.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate potential.
- **Mobility in Soil:** Low mobility due to low water solubility.

Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Do not release to the environment. Incineration under controlled conditions preferred.

Section 14: Transport Information

- **UN Number:** UN3077
- **Proper Shipping Name:** 2-Acetonaphthone
- **Hazard Class:** 9
- **Packing Group:** III

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous under GHS for skin and eye irritation.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.

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