

Material Safety Data Sheet (MSDS)

Orange Aldehyde

Revision Date: 21-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Orange Aldehyde
- **Chemical Formula:** C₁₀H₁₆O
- **CAS No:** N/A
- **Synonyms:** N/A
- **Recommended Use:** Fragrance ingredient in perfumery and consumer products

Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid, Skin Irritant, Eye Irritant
- **Signal Word:** Warning
- **Hazard Statements:**
 - Combustible liquid

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- Causes skin irritation
- Causes serious eye irritation
- **Precautionary Statements:**
 - Keep away from flames and hot surfaces
 - Avoid contact with skin and eyes
 - Wear protective gloves and eye protection
 - Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Concentration:** >95% Orange Aldehyde

Section 4: First Aid Measures

- **Inhalation:** Remove victim to fresh air. Seek medical advice if symptoms occur.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation continues.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide (CO₂), water spray.
- **Specific Hazards:** Combustible; 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:** Remove ignition sources. Use protective equipment. Avoid inhalation of vapors and contact with skin/eyes.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Handle in well-ventilated areas. Avoid contact with skin and eyes. Keep away from flames and hot surfaces.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for Orange Aldehyde.
- **Engineering Controls:** Ensure adequate ventilation and explosion-proof equipment.
- **Personal Protective Equipment:** Protective gloves, goggles, protective clothing. Respiratory protection if vapors exceed limits.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Citrus-like, aldehydic odor
- **Boiling Point:** 207 °C
- **Flash Point:** 75 °C (closed cup)
- **Solubility:** Slightly soluble in water, soluble in organic solvents
- **Molecular Weight:** 152.23 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal handling and storage conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation. May cause respiratory irritation.
- **Chronic Effects:** Prolonged or repeated contact may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable under normal conditions.
- **Bioaccumulative Potential:** Low to moderate potential for bioaccumulation.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Orange Aldehyde
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and international chemical inventory listings.

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 any liability for damage resulting from handling or contact.