

Material Safety Data Sheet (MSDS)

Peony Acetonitrile

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Peony Acetonitrile
- **Chemical Formula:** C₁₄H₁₅N
- **CAS No:** 10461-98-0
- **Synonyms:** Peonile; Peony Nitrile; 2-Cyclohexylidene-2-phenylacetonitrile; Geranium Nitrile
- **Recommended Use:** Fragrance / aroma chemical for perfumery and cosmetics; flavor/fragrance intermediate.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A); Acute toxicity, Oral (Category 5) / may be harmful if swallowed; Hazardous to the aquatic environment — Chronic Category 2.
- **Signal Word:** Warning

• Hazard Statements:

- May be harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- Wash thoroughly after handling
- Avoid release to the environment
- Wear protective gloves/eye protection; if ventilation is inadequate, use respiratory protection

Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If respiratory irritation or other symptoms occur, seek medical attention.
- **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. Continue rinsing and seek medical attention if irritation persists.

- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO₂); water spray to cool containers.
- **Specific Hazards:** Combustible liquid/vapour. Vapors may form explosive mixtures with air. Combustion can produce carbon oxides and nitrogen oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate ignition sources. Ensure adequate ventilation. Use personal protective equipment to avoid skin and eye contact and inhalation.
- **Environmental Precautions:** Prevent entry into drains and waterways; avoid release to the environment.
- **Cleanup Methods:** Absorb spill with inert material (sand, earth, vermiculite). Collect and place in suitable container for disposal in accordance with local regulations.

Section 7: Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapors. Use with adequate ventilation. Keep away from heat, sparks, open flame.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from incompatible materials and ignition sources.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established; follow good industrial hygiene practices.
- **Engineering Controls:** Provide adequate general ventilation; local exhaust if vapors may be generated.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing; respiratory protection if ventilation inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Floral / peony / geranium-like odor
- **Boiling Point:** 350.8 °C
- **Flash Point:** 166.8 °C

- **Solubility:** Practically insoluble in water; soluble in common organic solvents (alcohols, ethers).
- **Molecular Weight:** 197.28 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions of storage and use.
- **Incompatible Materials:** Strong oxidizing agents and strong acids.
- **Hazardous Decomposition Products:** Carbon oxides and nitrogen oxides when heated to decomposition or combustion.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May be harmful if swallowed; causes skin and eye irritation; inhalation of high concentrations may cause respiratory irritation.
- **Chronic Effects:** Repeated or prolonged exposure may cause dermatitis; limited data on long-term effects.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.
- **Persistence and Degradability:** Data limited; expected to be biodegradable but may persist enough to be harmful aquatic pollutant.
- **Bioaccumulative Potential:** Low to moderate potential

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:** Not regulated (fragrance ingredient; check local transport regulations)
- **Proper Shipping Name:** Peony Acetonitrile
- **Hazard Class:** Not classified as dangerous goods for transport (as supplied)
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

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.