

## Material Safety Data Sheet (MSDS)

### Coumarin

Revision Date: 29-August-2025

Version: 1.0

### Section 1: Product Identification

- **Product Name:** Coumarin
- **Chemical Formula:** C<sub>9</sub>H<sub>6</sub>O<sub>2</sub>
- **CAS No:** 91-64-5
- **Synonyms:** 1,2-Benzopyrone, 2H-1-Benzopyran-2-one
- **Recommended Use:** Used in fragrances, flavorings, and as an intermediate in pharmaceutical and chemical industries.

### Section 2: Hazards Identification

- **Classification (GHS):** Acute Toxicity (Oral, Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



www.chemicalbull.com

GROUP OF Triveni CHEMICALS

- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation

• **Precautionary Statements:**

- Avoid breathing dust or vapors
- Wash hands thoroughly after handling
- Wear protective gloves, clothing, and eye protection
- Do not eat, drink, or smoke when using this product

## Section 3: Composition / Information on Ingredients

- **Concentration:**  $\geq 99\%$  (typical commercial grade)

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing difficulty occurs, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Avoid dust formation and inhalation. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, soil, and water bodies.
- **Cleanup Methods:** Sweep up and place in suitable container for disposal. Avoid raising dust.

## Section 7: Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Use only in well-ventilated areas. Avoid dust formation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from light and moisture.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV: 10 mg/m<sup>3</sup> TWA (inhalable fraction).
- **Engineering Controls:** Provide adequate ventilation and dust control.
- **Personal Protective Equipment:** Protective gloves, goggles, lab coat, and dust respirator if necessary.

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to white crystalline solid
- **Odor:** Sweet, vanilla-like odor
- **Boiling Point:** 302 °C
- **Melting Point:** 68-71 °C
- **Flash Point:** 162 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 146.15 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.

- **Incompatible Materials:** Strong oxidizing agents, strong acids, and bases.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

---

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.
- **Acute Effects:** Harmful if swallowed. Causes skin and eye irritation.
- **Chronic Effects:** Prolonged or repeated exposure may affect liver function.

---

## Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate potential for bioaccumulation.

---

## Section 13: Disposal Considerations

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

## Section 14: Transport Information

- **UN Number:** 2811
- **Proper Shipping Name:** Coumarin
- **Hazard Class:** 6.1
- **Packing Group:** III

## Section 15: Regulatory Information

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