

Material Safety Data Sheet (MSDS)

Gum Rosin

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Gum Rosin
- **Chemical Formula:** C₂₀H₃₀O₂ (approx., complex mixture of resin acids)
- **CAS No:** 8050-09-7
- **Synonyms:** Colophony; Rosin
- **Recommended Use:** Used in adhesives, inks, varnishes, rubbers, soaps, paper sizing, and other industrial applications.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Sensitizer; Aquatic Chronic Hazard
- **Signal Word:** Warning
- **Hazard Statements:**
 - May cause an allergic skin reaction
 - Harmful to aquatic life with long lasting effects
- **Precautionary Statements:**
 - Avoid breathing dust/fumes

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- Avoid skin contact; wear protective gloves and clothing
- Avoid release to the environment
- Wash thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Composition:** Complex mixture of resin acids, primarily abietic acid derivatives
- **Concentration:** 90%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms occur.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation or allergic reaction occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide, water spray.
- **Specific Hazards:** Combustible solid. Emits carbon oxides and irritating fumes during combustion.

- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust generation. Ensure adequate ventilation. Wear protective equipment.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up or vacuum spilled material. Collect into suitable containers for disposal. Wash spill area with water.

Section 7: Handling and Storage

- **Handling:** Avoid breathing dust or fumes. Avoid contact with skin and eyes. Use adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Protect from heat and direct sunlight.

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:** Solid, brittle, glassy lumps or powder; color ranges from yellow to brown
- **Odor:** Mild, characteristic pine odor
- **Melting Point:** 100–150 °C (varies by grade)
- **Boiling Point:** Decomposes before boiling
- **Flash Point:** 200 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in alcohol, ether, and organic solvents

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May cause skin irritation or sensitization. Eye contact may cause irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or allergic reactions.
- **Toxicity Data:** Oral LD50 (rat): 5,000 mg/kg.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.
- **Mobility in Soil:** Low mobility due to hydrophobic nature.

Section 13: Disposal Considerations

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

Section 14: Transport Information

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

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous under GHS for sensitization and aquatic hazard.
- 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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