

## Material Safety Data Sheet (MSDS)

### Gum Arabic

**Prepared by:** Triveni Chemicals

**Revision Date:** 27-August-2025

**Version:** 1.0

### Section 1: Product Identification

- **Product Name:** Gum Arabic
- **Chemical Formula:** Complex polysaccharide
- **CAS No:** 9000-01-5
- **Recommended Use:** Used in food industry as stabilizer, emulsifier, thickener; also used in pharmaceuticals, cosmetics, and inks.

▪ **Supplier:**

**Triveni Chemicals**

Office No. 123-124, Pancharatna,  
Char Rasta, GIDC,  
Vapi - 396195, Gujarat, India



+91-9696960250



info@trivenichemical.com

+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



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## Section 2: Hazards Identification

- **Classification (GHS):** Not classified as hazardous under normal conditions of use.
- **Signal Word:** None required
- **Hazard Statements:**
  - Generally regarded as safe (GRAS)
  - May cause mild irritation to skin, eyes, or respiratory tract in sensitive individuals
- **Precautionary Statements:**
  - Avoid creating dust
  - Use in well-ventilated areas
  - Wash hands thoroughly after handling

## Section 3: Composition / Information on Ingredients

- **Chemical Name:** Gum Arabic
- **Synonyms:** Acacia Gum, E414, Arabic Gum
- **CAS Number:** 9000-01-5
- **Concentration:** Natural product, >95% polysaccharides and glycoproteins

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms occur, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation persists.
- **Ingestion:** Non-toxic in small amounts. Rinse mouth and drink water. Seek medical advice if discomfort occurs.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Organic dust may form combustible mixtures with air. 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 dust formation. Use protective equipment if necessary.
- **Environmental Precautions:** Non-hazardous. Avoid release of large amounts into watercourses.

- **Cleanup Methods:** Sweep up and collect in suitable container. Avoid dust generation.

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## Section 7: Handling and Storage

- **Handling:** Avoid dust formation. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from moisture and pests.

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## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established. Avoid excessive dust exposure.
- **Engineering Controls:** Ensure adequate ventilation in processing areas.
- **Personal Protective Equipment:** Gloves, protective goggles, dust mask if necessary.

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## Section 9: Physical and Chemical Properties

- **Appearance:** White to light brown powder or granules
- **Odor:** Slight, characteristic odor
- **Boiling Point:** Not applicable
- **Melting Point:** Decomposes on heating
- **Flash Point:** Not applicable (combustible dust hazard)

- **Solubility:** Soluble in water; insoluble in most organic solvents
- **Molecular Weight:** Not applicable (complex mixture)

## Section 10: Stability and Reactivity

- **Stability:** Stable under normal 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:** May cause mild irritation to respiratory tract, skin, or eyes in sensitive individuals.
- **Chronic Effects:** No known significant effects. Recognized as safe for human consumption.

## Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to the environment.
- **Persistence and Degradability:** Biodegradable.
- **Bioaccumulative Potential:** Negligible.

## Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Non-hazardous waste.

## Section 14: Transport Information

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

## Section 15: Regulatory Information

- Complies with Indian food safety and chemical safety regulations.
- Approved food additive (E414). Listed under international inventories.

## Section 16: Other Information

- **Prepared By:** Triveni Chemicals, Regulatory Affairs Department

- **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.

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