

Material Safety Data Sheet (MSDS)

Product Name: Gum Acacia

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Gum Acacia (Acacia Senegal Gum, Gum Arabic)
- **Synonyms:** Gum Arabic, Acacia Gum
- **Recommended Use:** Food additive, pharmaceutical excipient, stabilizer, emulsifier, binder in tablets.

2. Hazards Identification

- **Classification:** Not classified as hazardous under GHS.
- **Hazard Statements:** None known for normal handling.
- **Potential Health Effects:**
 - Inhalation: May cause slight respiratory irritation as dust.
 - Skin: Generally non-irritating.
 - Eyes: Dust may cause mild irritation.

- Ingestion: Considered safe; used in food and pharma.

3. Composition / Information on Ingredients

- **Substance:** Gum Acacia
- **CAS No.:** 9000-01-5
- **EC No.:** 232-519-5
- **Purity:** Natural plant exudate, food/pharma grade.

4. First Aid Measures

- **Inhalation:** Move to fresh air if inhaled in excess. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with water. No special treatment required.
- **Eye Contact:** Rinse thoroughly with clean water for several minutes. If irritation continues, consult physician.
- **Ingestion:** Non-toxic, rinse mouth with water. Seek medical attention in case of large accidental ingestion if discomfort occurs.

5. Fire Fighting Measures

- **Flammability:** Organic material, combustible in powder form.
- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Fire Hazards:** Dust may form explosive mixtures with air.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Protection:** Avoid dust inhalation, use protective mask if necessary.
- **Spill Clean-up:** Sweep up and collect in suitable container. Avoid generating airborne dust. Dispose according to regulations.

7. Handling and Storage

- **Handling:** Avoid creating dust. Handle in accordance with good hygiene practices.
- **Storage:** Store in a cool, dry, and well-ventilated area. Protect from moisture and direct sunlight. Keep containers tightly closed.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established. Treat as nuisance dust (10 mg/m³ inhalable dust).
- **Personal Protective Equipment:**
 - Respiratory: Dust mask if airborne dust is generated.
 - Eyes: Safety goggles if handling powder in bulk.
 - Hands: No specific protection required under normal use.
 - Hygiene: Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** White to pale yellow, spray-dried powder or lumps.
- **Odor:** Odorless or faint characteristic odor.
- **Solubility:** Soluble in water, forms viscous solutions.
- **Melting Point:** Decomposes on heating.
- **pH (5% solution):** 4.5 – 5.5
- **Bulk Density:** ~0.6 g/cm³
- **Moisture Content:** ≤ 12%

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Reactivity:** None under normal conditions.
- **Hazardous Decomposition:** CO and CO₂ on combustion.
- **Incompatible Materials:** Strong oxidizing agents.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic; used in food and pharma.
 - **Irritation:** May cause mild irritation to eyes or respiratory tract in dust form.
 - **Chronic Effects:** No known adverse effects.
 - **LD50 (oral, rat):** > 16,000 mg/kg (practically non-toxic).
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12. Ecological Information

- **Ecotoxicity:** Not expected to pose environmental hazards.
 - **Biodegradability:** Biodegradable (natural plant product).
 - **Bioaccumulation:** Not significant.
 - **Aquatic Toxicity:** No adverse effects reported.
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13. Disposal Considerations

- **Product Disposal:** Dispose of in accordance with local regulations as non-hazardous organic waste.
 - **Packaging Disposal:** Recycle or dispose of according to local guidelines.
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14. Transport Information (Detailed)

- **UN Number:** Not classified as dangerous goods.
- **UN Proper Shipping Name:** Gum Acacia / Gum Arabic.
- **Transport Hazard Class:** Not regulated.
- **Packing Group:** Not applicable.
- **Label Requirements:** None.
- **Environmental Hazards:** Not classified as environmentally hazardous.
- **Special Precautions:** Avoid moisture during transportation. Protect from excessive heat.
- **Mode of Transport Considerations:**
 - **By Road (ADR/RID):** Not restricted.

- **By Air (IATA/ICAO):** Not restricted; transport in sealed moisture-proof packaging.
- **By Sea (IMDG):** Not restricted; stow in a dry, ventilated place.
- **By Rail:** Not restricted.
- **Bulk Transport (Annex II of MARPOL 73/78 and IBC Code):** Not applicable, not carried in bulk liquid form.

15. Regulatory Information

- Not classified as hazardous according to EU, US OSHA, or Indian regulations.
- Approved as a food additive (E414).
- Complies with FAO/WHO JECFA standards.

16. Other Information

- **Disclaimer:** The information above is believed to be accurate and represents the best information available to us. However, Rawpharma Biz makes no warranty with respect to such information and assumes no liability resulting from its use. Users should make their own investigations to determine suitability.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.