

Xanthan Gum SDS Overview

1. Identification

- **Product name:** Xanthan Gum (E 415), also known as polysaccharide gum from fermentation
- **CAS Number:** 11138-66-2; EINECS: 234-394-2

2. Hazard Identification

- Generally regarded as low hazard in normal use
- May cause irritation if inhaled (dust), or contact with skin/eyes
- Dust accumulation may present a **dust explosion** risk

3. Composition / Information on Ingredients

- Essentially pure xanthan gum, with no sign of hazardous impurities.

4. First Aid Measures

- **Eyes:** Rinse cautiously with water for ≥ 15 minutes; seek medical attention if irritation persists
- **Skin:** Wash thoroughly with water and soap; remove contaminated clothing; seek help if irritation continues
- **Inhalation:** Move to fresh air; seek medical attention if symptoms occur.
- **Ingestion:** Generally not hazardous; if necessary, consult a physician

5. Firefighting Measures

- **Extinguishing media:** Water spray, dry chemical, CO₂, alcohol-resistant foam.
- **Special hazards:** Dust explosions possible in high concentrations.
- **Protection for firefighters:** Use full protective gear including a self-contained breathing apparatus.

6. Accidental Release Measures

- Sweep or vacuum dry powder, avoid dust dispersion; wet material may be slippery—wash area after cleanup.

7. Handling and Storage

- **Handling:** Avoid dust generation; use adequate ventilation; no open flames or sparks; non-sparking tools recommended.
- **Storage:** Store in a cool, dry, well-ventilated place in tightly sealed containers; avoid heat, moisture, ignition sources, strong oxidizers.

8. Exposure Controls / Personal Protection

- **Engineering controls:** Use local exhaust ventilation to minimize dust exposure.
- **Respiratory protection:** NIOSH/MSHA or EN-149 approved dust respirator if dust levels exceed recommendations.
- **Eye protection:** Safety goggles or face shield.
- **Skin protection:** Gloves and protective clothing; maintain good hygiene.

9. Physical and Chemical Properties

- Appearance: White to cream/-yellow powder, free-flowing.
- Odor: Slight or mild.
- **Solubility:** Soluble in water; not in organic solvents.
- **pH (1% solution):** ~6.0–8.0.
- Other: Typically stable; shelf life around 36 months.

10. Stability and Reactivity

- Stable under standard conditions.
- Will not polymerize; thermal decomposition may release CO and CO₂; avoid strong oxidizers.

11. Toxicological Information

- No acute toxicity data available (LD₅₀/LC₅₀ unknown).
- Not known to be carcinogenic, mutagenic, or teratogenic; irritation possible

12. Ecological Information

- Biodegradable, but specific ecotoxicity data is limited.

13. Disposal Considerations

- Dispose via licensed chemical destruction or incineration with scrubbing; avoid environmental release; rinse containers if recycling.
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