



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

Xanthan Gum

SDS No.: DY-XG-021 • Version: 2.9 • Revision date: 2025-09-18

GHS classification	Not classified as hazardous
Primary hazards	Mechanical irritation; combustible dust potential
Recommended PPE	Safety glasses; N95/FFP2 if dust may be generated
Shelf life	24 months (dry, sealed)
Packaging	25 kg bags; big-bags on pallets (per client)
Intended use	Rheology modifier / drilling-fluid additive

Contents

SECTION 1. Identification of the substance and of the company/undertaking

Product identifier: Xanthan Gum (powder)

Synonyms: Xanthan; E415

Recommended use: Drilling-fluid additive; rheology modifier; thickener

Supplier: HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SECTION 2. Hazards identification

- GHS classification: Not classified as hazardous.

- Label elements: No signal word or pictograms required.
- Supplemental: May form **combustible dust** concentrations in air; avoid dust accumulation and ignition sources.
- Housekeeping: Follow good practice for combustible dusts (e.g., NFPA 652)—control ignition sources and prevent dust build-up.
- Other hazards: Hygroscopic; may clump when exposed to moisture.

SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	REACH/TSCA
Xanthan gum	11138-66-2	≥ 99% (typical)	Listed; polymer exempt

SECTION 4. First aid measures

- General: If symptoms persist, get medical advice/attention.
- Eyes: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do.
- Skin: Wash with soap and water; remove contaminated clothing and launder before reuse.
- Inhalation: Move to fresh air; keep comfortable for breathing.
- Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel.

SECTION 5. Firefighting measures

- Suitable extinguishing media: Water spray, foam, dry chemical, or CO₂.
- Specific hazards: Combustible dust hazard if suspended and ignited; combustion may produce CO/CO₂.
- Protective equipment: Self-contained breathing apparatus and full protective gear.

SECTION 6. Accidental release measures

- Personal precautions: Avoid dust formation; avoid breathing dust; ensure adequate ventilation.
- Cleanup: Vacuum or carefully sweep; avoid dry sweeping that creates dust clouds; wash spill area (slippery when wet).

SECTION 7. Handling and storage

- Handling: Minimize airborne dust; ground/bond equipment; maintain good housekeeping.
- Storage: Store tightly closed in a cool, dry, well-ventilated area; protect from moisture and oxidizers.

SECTION 8. Exposure controls / personal protection

- Exposure limits: No OEL specific to xanthan gum. Keep total inhalable dust <10 mg/m³; respirable dust <3 mg/m³ (typical guidance).
- Engineering controls: Local exhaust where dust is generated; explosion-proof equipment for large-scale handling.
- PPE: Safety glasses; gloves as needed; particulate respirator (N95/FFP2) if dust present.
- Hygiene: Wash hands after handling; no eating/drinking/smoking during use.

SECTION 9. Physical and chemical properties

Property	Value
Appearance	Off-white to light-yellow powder
Odor	Slight / characteristic
pH (1% solution)	~7.0
Solubility	Soluble in water
Viscosity (1% aq.)	Typical 1200–2000 mPa·s; see product COA
Bulk density	0.5–0.8 g/cm ³ (typical)
Decomposition temperature	Not determined
Auto-ignition	Not determined (no robust data)

SECTION 10. Stability and reactivity

- Stable under normal conditions.
- Avoid dust, moisture, heat and ignition sources.
- Incompatible: strong oxidizers.
- Hazardous decomposition: CO and CO₂.

SECTION 11. Toxicological information

- Routes of exposure: Inhalation of dust; eye and skin contact.
- Acute toxicity: Not expected to be acutely toxic; not listed by IARC/NTP/OSHA.
- Irritation/Sensitization: Mechanical irritation possible; sensitization not expected for most users.

SECTION 12. Ecological information

- Biodegradable polysaccharide; not expected to bioaccumulate.
- No known significant environmental hazards at typical use levels.

SECTION 13. Disposal considerations

- Dispose of in accordance with applicable regulations.
- Not a RCRA hazardous waste in purchased form.
- Empty containers may contain residue—follow safe handling practices.

SECTION 14. Transport information

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID (Road/Rail)	—	Not regulated	—	Non-hazardous goods
IMDG (Sea)	—	Not regulated	—	Not a marine pollutant
IATA (Air)	—	Not regulated	—	—

SECTION 15. Regulatory information

- US TSCA: Listed. SARA 311/312: Not hazardous. EU CLP: Not classified. Canada DSL: Listed. China IECSC: Present (if applicable).

SECTION 16. Other information

Issue date: 2025-09-18 • Supersedes: N/A (new formatted release)

Disclaimer: Information believed accurate but not exhaustive; use as guidance.

Revision History

Version	Date	Change summary	Approved by
2.9	2025-09-18	International letterhead-style company block; EN/RU	QA