

Safety Data Sheet: Xanthan Gum

1. Identification

Product	Xanthan Gum; CAS 11138-66-2; EC 234-394-2
Use	Industrial rheology and drilling-fluid formulation.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Xanthan Gum. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Not classified under CLP in the selected polymer-powder reference. Organic dust handling requires separate exposure and ignition controls.
Signal word / symbols	No signal word required by the selected CLP reference; No GHS pictogram in the selected reference
Hazard statements	No numbered GHS hazard statements in the selected reference. Dust may irritate eyes or the respiratory tract; dispersed organic powder may form combustible dust concentrations.
Prevention	Use adequate ventilation; avoid inhaling dust. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.

3. Composition / Information on Ingredients

Reference ingredient	Xanthan gum CAS 11138-66-2, polysaccharide powder reference. Exact polymer molecular weight and industrial batch impurity composition are not assigned.
Supply grade	Oilfield / industrial rheology grade
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Powder can cause mechanical irritation. Hydrated material can create slippery surfaces. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.
Hazards	Fire or thermal decomposition generates carbon oxides and irritating smoke.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Restrict access, avoid airborne dust and use appropriate powder-exposure protection.
Environment	Prevent release to drains and water.
Cleanup	Collect powder using controlled mechanical methods or suitable filtered equipment. Avoid dispersing dust; place residues in closed labelled containers.

7. Handling and Storage

Handling	Use controlled powder addition and local extraction to limit dust. Wear suitable gloves and eye protection; avoid inhalation and prevent powder accumulation near ignition sources. Clean spills promptly because hydrated gum can make floors slippery.
Storage	Store in sealed original lined bags in a cool, dry, ventilated area. Protect from moisture and contamination and keep away from strong oxidizers and ignition sources.
Incompatibilities	Strong oxidizing agents; avoid dust accumulation and uncontrolled heating.

8. Exposure Controls / Personal Protection

Exposure controls	The selected reference does not assign a substance-specific exposure limit. Control airborne powder and apply current local dust requirements.
Engineering	Use controlled powder transfer with local extraction.
Protection	Use controlled powder addition and local extraction to limit dust. Wear suitable gloves and eye protection; avoid inhalation and prevent powder accumulation near ignition sources. Clean spills promptly because hydrated gum can make floors slippery.

9. Physical and Chemical Properties

Appearance	Beige powder
Physical state	Beige polymer powder
Water response	Hydrates to viscous solution
Molecular identity	High-molecular-weight polysaccharide
Molecular weight	Distribution varies with polymer grade

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing agents; avoid dust accumulation and uncontrolled heating.
Decomposition	Fire or thermal decomposition generates carbon oxides and irritating smoke.

11. Toxicological Information

Exposure effects	Powder can cause mechanical irritation. Hydrated material can create slippery surfaces.
Reference classification	Not classified under CLP in the selected polymer-powder reference. Organic dust handling requires separate exposure and ignition controls.
Toxicological data	The selected CLP reference is not classified for health hazards. This does not replace exposure assessment or establish regulated end-use suitability.

12. Ecological Information

Environmental effects	Prevent uncontrolled discharge and collect spills. Polymer biodegradability does not establish harmlessness of concentrated releases or complete industrial formulations.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned for the non-dangerous-goods reference
Shipping name	Not regulated as dangerous goods
Class / packing group	ADR/RID, IMDG, IATA and ADN: not regulated as dangerous goods.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Xanthan Gum; CAS 11138-66-2; EC 234-394-2
HS reference	391390; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	No numbered GHS hazard statements in the selected reference. Dust may irritate eyes or the respiratory tract; dispersed organic powder may form combustible dust concentrations.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

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