Safety Data Sheet

For INDIA, According to GHS (Rev. 8)

XANTHAN GUM

Date of compilation: 27-07-2026 | Revised: 27-07-2026 | Version: 1

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

XANTHAN GUM

Polysaccharide gum; corn sugar gum; water-soluble biopolymer produced by fermentation of carbohydrates

CAS: 11138-66-2

Other means of identification:

EINECS/ELINCS: 234-394-2 | Food additive: E415

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Thickening, stabilizing and suspending agent in food, pharmaceuticals and cosmetics; viscosifier in oilfield drilling fluids; suspending agent in agrochemical formulations. For industrial/food-grade use as per grade purchased.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS: Not classified as a hazardous substance/mixture based on available data. This is expected to be a low hazard for usual industrial handling.

2.2 GHS label elements, including precautionary statements:

No hazard pictograms or signal word are required. Precautionary statement (general good practice): Avoid contact with skin and eyes.

2.3 Other hazards which do not result in classification:

Hygroscopic (absorbs moisture from air). Dust in sufficient quantity and reduced particle size is capable of creating a dust explosion. Forms smooth, slippery surfaces on floors when wetted, posing a slip hazard. Target organs: None identified.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Xanthan Gum

Identification	Chemical Name / Classification	Concentration
CAS: 11138-66-2 EINECS: 234-394-2	Xanthan gum – Not classified	100%

To obtain more information on the hazards of the substance, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

By inhalation:

Remove from exposure and move to fresh air immediately.

By skin contact:

Get medical aid if irritation develops or persists. No specific treatment is normally necessary.

By eye contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

By ingestion:

Wash mouth out with water. No specific treatment is normally necessary.

Notes to physician: Treat symptomatically and supportively.

4.2 Most important symptoms/effects, acute and delayed:

Eye/skin: dust may cause mechanical irritation. Inhalation: dust may cause respiratory tract irritation. No chronic effects reported.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Water spray, dry chemical, carbon dioxide, or chemical foam.
Unsuitable: None known.

5.2 Specific hazards arising from the chemical:

This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Autoignition temperature > 200°C. NFPA rating (estimated): Health 0; Flammability 1; Instability 0.

5.3 Special protective actions for fire-fighters:

Wear a self-contained breathing apparatus in pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in section 8. Avoid generating dusty conditions.

6.2 Environmental precautions:

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up:

Vacuum or sweep up material and place into a suitable disposal container. Material forms smooth, slippery surfaces on floors when wet, posing an accident risk. Provide ventilation.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing; avoid breathing dust.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place in a tightly closed container.

7.3 Specific end use(s):

No special requirement beyond the uses specified in section 1.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Identification	Occupational Exposure Limit Type	Value
Xanthan gum CAS: 11138-66-2	No specific ACGIH / NIOSH / OSHA limit established	General nuisance dust limits apply (e.g., ~10 mg/m³ total dust / ~3-5 mg/m³ respirable dust, typical industrial hygiene reference)

8.2 Appropriate engineering controls:

Use adequate ventilation to keep airborne dust concentrations low.

B. Respiratory protection:

NIOSH/MSHA or EN 149 approved respirator if exposure limits are exceeded or irritation is experienced.

C. Specific protection for the hands:

Glove protection is not normally required for routine handling.

D. Eye and face protection:

Chemical safety goggles per OSHA 29 CFR 1910.133 or EN 166.

E. Bodily protection:

Protective garments not normally required for routine handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Powder
Appearance/Color	White to light yellow-brown
Odor	Mild, bland
Product Description	
pH	6.0 – 8.0 (1% aqueous solution) [typical, general reference]
Viscosity	~2000 cps (1% aqueous solution)
Solubility in water	Soluble
Bulk density	~0.7 – 0.8 g/cm³ (typical, general reference)
Molecular weight	> 10,000,000 (high molecular weight biopolymer)
Volatility / Thermal	
Boiling point	Not available
Melting/freezing point	Not available
Decomposition temperature	Not available
Vapour pressure	Not available
Vapour density	Not available
Evaporation rate	Not available
Flammability	
Flash point	Not applicable
Autoignition temperature	> 200°C
Upper / Lower flammability limit	Not available

9.2 Other information:

Oxidising properties	Not available
Explosive properties	Dust explosion possible in sufficient quantity/fine particle size (see section 5.2)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No specific reactivity data available.

10.2 Chemical stability:

Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4 Conditions to avoid:

Dust Generation	Moist Air	Water Contact
Avoid	Avoid	Avoid uncontrolled contact (hygroscopic)

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

A. Ingestion (acute effect):

No hazard expected in normal industrial/food use.

B. Inhalation (acute effect):

Inhalation of dust may cause respiratory tract irritation.

C. Contact with skin and eyes (acute effect):

Dust may cause mechanical irritation to eyes and skin; low hazard for usual industrial handling.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Not listed by ACGIH, IARC, NTP, or CA Prop 65. No data available for teratogenicity, reproductive effects, mutagenicity or neurotoxicity.

Product-specific toxicological information:

Identification	LD50 / LC50	Species
Xanthan gum CAS: 11138-66-2	Not available (RTECS unlisted)	–

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No ecotoxicity data available.

12.2 Persistence and degradability:

Biodegradable.

12.3 Bioaccumulative potential:

No information available.

12.4 Mobility in soil:

No information available.

12.5 Results of PBT and vPvB assessment:

Non-applicable.

12.6 Other adverse effects:

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste generators must determine whether a discarded quantity of this material is classified as hazardous waste under applicable regulations. Dispose of in accordance with local, regional and national environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Not regulated as a hazardous material
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	Non-applicable
14.4 Packing group	Non-applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	None; physico-chemical properties see section 9
14.7 Transport in bulk	Not relevant

Transport of dangerous goods by sea (IMDG):

14.1 UN number	Not regulated as a hazardous material
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	Non-applicable
14.4 Packing group	Non-applicable
14.5 Marine pollutant	No
14.6 Special precautions for user	None
14.7 Transport in bulk	Not relevant

Transport of dangerous goods by air (IATA/ICAO):

14.1 UN number	Not regulated as a hazardous material
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	Non-applicable
14.4 Packing group	Non-applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	None
14.7 Transport in bulk	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

Food-grade xanthan gum is permitted as a food additive (E415) under FSSAI (India) and Codex Alimentarius regulations, subject to prescribed use levels. Not listed as a hazardous air pollutant or ozone depletor.

Other legislation:

The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
Food Safety and Standards Act, 2006 (India) – for food-grade material

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

Not applicable – this product is not classified as hazardous under GHS.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, to facilitate comprehension of this safety data sheet and the product label.

Principal bibliographical sources:

Manufacturer's Material Safety Data Sheet (pre-GHS US format); well-established public reference data for CAS 11138-66-2.

Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists | NIOSH: National Institute for Occupational Safety and Health | OSHA: Occupational Safety and Health Administration | NFPA: National Fire Protection Association | RTECS: Registry of Toxic Effects of Chemical Substances

END OF SAFETY DATA SHEET