

SAFETY DATA SHEET
Xanthan Gum

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: XANTHAN GUM
EC Number: 234-394-2
CAS No: 11138-66-2

Synonyms:

KELTROL, KELZAN, ZIBOXAN F200, FUFENG 40, FUFENG 80, FUFENG 200, XANTHAN GUM 80M, XANTHAN GUM FNCSP-PC, XANTHAN GUM TECH MED, XANTHAN GUM FFST, AXILAT RH23, XANTHAN GUM TGRD TECH, XANTHAN GUM FFCS-PC, XANTHAN GUM FFPC, XANTHAN GUM FFCSP-PC, XANTHAN GUM FED, XANTHAN GUM OIL NON DISP 80M MH, XANTHAN GUM FN-PC, XANTHAN GUM COARSE FG, XANTHAN GUM FNCS, XANTHAN GUM FEDCS FG, XANTHAN GUM TNAS, XANTHAN GUM TNAS-CS, XANTHAN GUM FEDCS-PC FG, XANTHAN GUM FFG JBN, XANTHAN GUM SFN JBN, XANTHAN GUM FF, XANTHAN GUM FN, XANTHAN GUM FG, XANTHAN GUM FFDF, XANTHAN GUM FNDF, XANTHAN GUM FGDF, XANTHAN GUM FNLD, XANTHAN GUM FNST, XANTHAN GUM FNP, XANTHAN GUM FNPP, XANTHAN GUM FNAF-CS, XANTHAN GUM FNCS-LD, XANTHAN GUM FNCS-LDK, XANTHAN GUM FNCS-PC, XANTHAN GUM FNCSP, XANTHAN GUM FN-OC, XANTHAN GUM FNCS-OC, XANTHAN GUM FFP, XANTHAN GUM FFCS, XANTHAN GUM FFCSP, XANTHAN GUM FFJ, XANTHAN GUM FF OC, XANTHAN GUM FFCS-OC, XANTHAN GUM TF, XANTHAN GUM TFST, XANTHAN GUM TFCS, XANTHAN GUM TFAF-CS, XANTHAN GUM TN, XANTHAN GUM TNP, XANTHAN GUM TNCS, XANTHAN GUM TNO, XANTHAN GUM TG, XANTHAN GUM TGCS, XANTHAN GUM TGO, XANTHAN GUM FOOD GRADE E415, XANTHAN GUM 200M SFN, XANTHAN GUM FINE FG, XANTHAN GUM FN MED FG, XANTHAN GUM FFCS-ST, XANTHAN GUM FF-PC, XANTHAN GUM FNHV, XANTHAN GUM FNS, XANTHAN GUM TNCSP, XANTHAN GUM TNPP, XANTHAN GUM TNST, XANTHAN GUM FNP-OC, XANTHAN GUM FF-OC, XANTHAN GUM FEDCS-PC, XANTHAN GUM FEDCS, XANTHAN GUM FFDCS, XANTHAN GUM TNAC, GRINDSTED XANTHAN TOC T, COSPHADERM X SOFT, XANTHAN GUM FG 200M, XANTHAN GUM TER 2000 200M E415

Pure substance/mixture: Substance.

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified.

Label elements: Not classified.

Hazard statements: Not classified.

Other hazards: No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
XANTHAN GUM 11138-66-2	90 – 100%	234-394-2	-	Not classified	-	-	-

Full text of H- and EUH-phrases: See section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59).

4. FIRST AID MEASURES

Description of first aid measures:

General advice: Keep victim under observation.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention if symptoms occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.

Ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed:

Eyes: Solid particles trapped behind the eyelid may cause abrasive damage.

Indication of any immediate medical attention and special treatment needed:

Note to doctors: Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: When heated and in case of fire, toxic vapours/gases may be formed.

Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions:

Ensure adequate ventilation.

Use personal protection recommended in Section 8.

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Avoid generation of dust.

For emergency responders:

Use personal protection recommended in Section 8.

Environmental precautions:

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for containment:

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:

Remove spillage with vacuum cleaner.

If not possible, collect spillage with shovel, broom or the like.

Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections:

See section 8 for more information. See section 13 for more information.

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7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Avoid generation of dust. Do not eat, drink or smoke when using this product.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standard.

Specific end use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers: No information available.

Derived No Effect Level (DNEL) - General Public: No information available.

Predicted No Effect Concentration (PNEC): No information available.

Exposure controls:

Engineering controls: No information available.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN ISO 16321-1.

Hand protection: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Skin and body protection: Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection: Use appropriate respiratory protection.

Recommended filter type: Particulates type (P). Particulates filter conforming to EN 143.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Solid

Appearance: Solid. Dusty powder. Powder granules. Crystalline

Colour: White/off-white to beige

Odour: Characteristic

Odour threshold: Not determined

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Property	Values	Remarks • Method
Melting point / freezing point		Decomposes before melting
Initial boiling point and boiling range		Not applicable
Flammability		The product is not flammable
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		Not applicable
Autoignition temperature	> 200 °C	
Decomposition temperature	> 120 °C	
pH	5 - 10	
pH (as aqueous solution)		No information available
Kinematic viscosity		Not applicable
Dynamic viscosity		No information available
Water solubility	Completely soluble	
Solubility(ies)	Insoluble in the following materials: Ethanol	
Partition coefficient		No information available
Vapour pressure		Not applicable
Relative density		No information available
Bulk density	600 - 850 kg/m ³	
Liquid Density	No information available	No information available
Relative vapour density		Not applicable
Particle characteristics		No information available
Particle Size	~ 0.2 - 1.2 mm	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising	

10. STABILITY AND REACTIVITY

Reactivity: No known effects under normal use conditions.

Chemical stability:

Stability: Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Possibility of hazardous reactions: None under normal processing. Dust may form explosive mixture with air.

Conditions to avoid: Avoid generation of dust.

Incompatible materials: None known based on information supplied.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact: Dust contact with the eyes can lead to mechanical irritation.

Skin contact: Contact with dust can cause mechanical irritation or drying of the skin.

Ingestion: Gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms:

Acute toxicity:

Numerical measures of toxicity: No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
XANTHAN GUM	45000 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Dermal		360 hours	Non-irritant
	Rabbit	Dermal		120 hours	Non-irritant

XANTHAN GUM (11138-66-2):

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Dermal		360 hours	Non-irritant
	Rabbit	Dermal		120 hours	Non-irritant

Serious eye damage/eye irritation: Based on available data the classification criteria are not met.

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Eye		120 hours	Non-irritant

XANTHAN GUM (11138-66-2):

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Eye		120 hours	Non-irritant

Respiratory or skin sensitisation Based on available data the classification criteria are not met.

Method	Species	Exposure route	Results
	Guinea pig		Did not cause sensitisation on laboratory animals

XANTHAN GUM (11138-66-2):

Method	Species	Exposure route	Results
	Guinea pig		Did not cause sensitisation on laboratory animals

[cont...]

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Germ cell mutagenicity Based on available data the classification criteria are not met.

Method	Species	Results
		Did not show mutagenic effects in animal experiments

XANTHAN GUM (11138-66-2):

Method	Species	Results
		Did not show mutagenic effects in animal experiments

Carcinogenicity Based on available data the classification criteria are not met.

Method	Species	Results
		Not Classifiable

XANTHAN GUM (11138-66-2):

Method	Species	Results
		Not Classifiable

Reproductive toxicity: Based on available data the classification criteria are not met.

STOT - single exposure: Based on available data the classification criteria are not met.

STOT - repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)		420 mg/L	96 hours	

XANTHAN GUM (11138-66-2):

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)		420 mg/L	96 hours	

Persistence and degradability: Readily biodegradable.

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation	Readily biodegradable

XANTHAN GUM (11138-66-2):

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation	Readily biodegradable

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Bioaccumulative potential:

Bioaccumulation: Not likely to bioaccumulate.

Mobility in soil: Completely soluble.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations.

Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

IMDG:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

Maritime transport in bulk according to IMO instruments: No information available

RID:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

[cont...]

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ADR:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations:

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended): Not applicable

The Ozone-Depleting Substances Regulations 2015: Not applicable

The Biocidal Products Regulations 2001 (as amended): Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended): Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended): Not applicable

International Inventories:

TSCA: Contact supplier for inventory compliance status

DSL/NDSL: Contact supplier for inventory compliance status

EINECS/ELINCS: Contact supplier for inventory compliance status

ENCS: Contact supplier for inventory compliance status

IECSC: Contact supplier for inventory compliance status

KECI: Contact supplier for inventory compliance status

PICCS: Contact supplier for inventory compliance status

AIIC: Contact supplier for inventory compliance status

NZIoC: Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

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Chemical safety assessment:

Chemical Safety Report: A Chemical Safety Assessment is not required for this substance.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend:

SVHC: Substances of Very High Concern for Authorisation

Legend:

Section 8: Exposure controls/personal protection:

TWA TWA (time-weighted average)

STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

***** Skin designation

+ Sensitisers

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.