



# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878  
Date of issue: 2025/01/01

Version: 2.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Substances
Trade name	: XANTHAN GUM
EC-No.	: 234-394-2
CAS-No.	: 11138-66-2
Type of product	: Chemical
Formula	: (C <sub>35</sub> H <sub>49</sub> O <sub>29</sub> )
Product group	: Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category	: Food use,Industrial use,Professional use
Industrial/Professional use spec	: Chemical

##### 1.2.2. Uses advised against

Restrictions on use	: Any other intended applications should be discussed with the manufacturer
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#### 1.3. Details of the supplier of the safety data sheet

Deosen Biochemical(Ordos)Ltd

Add:Sanshangliang Industrial Park,Dalate,Ordos city,014300,Inner Mongolia,P.R.China

Tel. : + 86 477 5189047

Fax : +86 477 5189047

#### 1.4. Emergency telephone number

Emergency number: + 86 533 7220830

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, the product does not present any particular risk, under normal conditions of use.

#### 2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

#### 2.3. Other hazards

Other hazards not contributing to the classification	: The product is under certain conditions capable of dust explosion. Dust may cause mechanical irritation.
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# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878

Version: 2.1

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Xanthan gum	(CAS-No.) 11138-66-2 (EC-No.) 234-394-2	100	Not classified

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash with plenty of water/.... If irritation persists, consult a doctor.
First-aid measures after eye contact	: If eye irritation persists: Get medical advice/attention. Rinse thoroughly and plentifully with water, also under the eyelids.
First-aid measures after ingestion	: Rinse mouth out with water. Give 2-3 glasses of water to drink. Consult a doctor/medical service if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: No significant signs or symptoms indicative of any health hazard are expected to occur.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water. Water spray. Polyvalent foam. Alcohol resistant foam.
Unsuitable extinguishing media	: Do not use a heavy waterstream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Dust may form flammable and explosive mixture with air.
Explosion hazard	: Dust may form flammable and explosive mixture with air.
Reactivity in case of fire	: Upon combustion: CO and CO <sub>2</sub> are formed. Evolution of fumes.
Hazardous decomposition products in case of fire	: Hazardous vapours may be released.

#### 5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind.
Firefighting instructions	: In case of fire: stop leak if safe to do so. Personal protection during fire fighting.
Protection during firefighting	: Avoid dust formation. Self contained breathing apparatus.
Other information	: Avoid whirling up the material/product because of the danger of dust explosion. : Avoid release to the environment. Refer to special instructions/safety data sheets.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid dust production. Dust formation: consult the information on the powder!.
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##### 6.1.1. For non-emergency personnel

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting.

##### 6.1.2. For emergency responders

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Avoid release to the environment. Not in groundwater, surface water or sewerage.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Dust binding agents. Powdered form: no compressed air for pumping over. Vacuum with an equipment that avoids ignition risk.
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# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878

Version: 2.1

Methods for cleaning up	: Pick up with suitable appliance and dispose of. Shovel or sweep up and put in a closed container for disposal. Powdered: do not use compressed air for pumping over spills.
Other information	: Liquid material is slippery. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

### 6.4. Reference to other sections

Reference to other sections (8, 13). SECTION 7.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed	: Dust may form explosive mixture in air.
Precautions for safe handling	: Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from ignition sources/sparks. Take precautionary measures against static discharge. Keep container tightly closed.
Hygiene measures	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ensure adequate air ventilation. Local exhaust is recommended where dust may occur.
Storage conditions	: Keep container tightly closed and in a well-ventilated place. Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible products	: Strong bases. Oxidizing agent.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: water/moisture.
Storage area	: Store in a dry area. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled.
Packaging materials	: Carton. cardboard. Paperbag.

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Xanthan Gum (11138-66-2)		
EU	IOELV TWA (mg/m³)	10 mg/m³ inhalable dust
EU	IOELV STEL (mg/m³)	3 mg/m³ respirable dust

Additional information	: In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit.
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### 8.2. Exposure controls

#### Appropriate engineering controls:

General exposure limit for inhalable particulate matter. In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit. Good ventilation of the workplace required.

#### Personal protective equipment:

None under normal conditions.

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Skin and body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust)

# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878

Version: 2.1

### Respiratory protection:

Dust production: dust mask with filter type P2

### Thermal hazard protection:

On heating: self-contained breathing apparatus.

### Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations.

### Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: White to off-white.
Odour	: Slight.
Odour threshold	: not applicable, odour not perceivable
pH	: Not applicable
pH solution	: 1 (6 - 8) %
Relative evaporation rate (butylacetate=1)	: Not applicable
Relative evaporation rate (ether=1)	: Not applicable
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not determined
Flammability (solid, gas)	: not highly flammable
Vapour pressure	: Not applicable
Vapour pressure at 50 °C	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: Not applicable
Density	: Not determined
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive, however a dust explosion could result from an air / dust mixture.
Oxidising properties	: Not determined.
Explosive limits	: For solids not relevant for classification and labelling.

### 9.2. Other information

Bulk density	: 800,92 kg/m³
Other properties	: If necessary, information on other physical and chemical parameters is indicated in this section.
Additional information	: No further information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Polymerisation: none.

# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878

Version: 2.1

### 10.4. Conditions to avoid

Avoid high temperatures. Moisture.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Dust may cause mechanical irritation.
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Dust may cause mechanical irritation.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	: None under normal conditions. Dust may cause mechanical irritation.
Other information	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: There is a high probability that the product is not acutely harmful to aquatic organisms.
Ecology - air	: The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.
Ecology - water	: No data available on ecotoxicity. Practically non-toxic to bacteria (EC <sub>50</sub> >100 mg/l).
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

#### Ziboxan F 200 (11138-66-2)

LC50 fish 1	980 mg/l
EC50 Daphnia 1	980 mg/l
Additional information	The product has not been tested

### 12.2. Persistence and degradability

#### Xanthan Gum (11138-66-2)

Persistence and degradability	Readily biodegradable in water.
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### 12.3. Bioaccumulative potential

#### Xanthan Gum

Bioaccumulative potential	No bioaccumulation data available.
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### 12.4. Mobility in soil

No additional information available

# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878

Version: 2.1

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Remove waste in accordance with local and/or national regulations.

Waste treatment methods : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Packs that cannot be cleaned should be disposed of in the same manner as the contents. Uncontaminated packaging can be re-used. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

Additional information : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Handle uncleaned empty containers as full ones.

Ecology - waste materials : Empty containers should be thoroughly rinsed with large quantities of clean water. Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

Not regulated

#### - Transport by sea

Not regulated

#### - Air transport

Not regulated

#### - Inland waterway transport

Not regulated

#### - Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Xanthan Gum is not on the REACH Candidate List

Xantahn Gum is not on the REACH Annex XIV List

# Xanthan Gum

## Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878

Version: 2.1

Other information, restriction and prohibition regulations : Ensure all national/local regulations are observed.

### 15.1.2. National regulations

Users should ensure that they comply with any relevant local, provincial or national legislation.  
No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out  
Available on request

## SECTION 16: Other information

Indication of changes:

Revised SDS according to Regulation (EC) No. 1907/2006 (REACH) with EU regulations 2020/878.

Section	Changed item	Change	Comments
1	Trade name	Added	Xanthan Gum

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
	WGK - Water Hazard Class

Data sources : Manufacturer/Supplier. Authoring: Quick MSDS SpA - Belgium info@quickmsds.de +32 (0) 479 469 465.

Training advice : Normal use of this product shall only use in accordance with the instructions on the packaging.

Other information : No further information available.

MSDS EU (REACH Annex II)\_JBO

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

