

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Xanthan Gum

Version 1.1	Revision date:	BL (safety	Date of last issue: 11/11/2021
CZ / CS	01/22/2024	data sheet) number:	Date of first issue: 11/11/2021
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: Xanthan Gum
Substance name	: Xanthan gum
Product name	: Xanthan Gum FED / FEDCS / FEDCS-PC / FF / FFCS / FFCSK / FFCS-OC / FFCS-PC / FFCSP-PC / FFCS-ST / FFDCS / FFDF / FFJ / FF-OC / FF-PC / FFST / FG / FGDF / FN / FNAF-CS / FNCS / FNCS-LD / FNCS-LDK / FNCS-OC / FNCS-PC / FNCSP / FNCSP-PC / FNDF / FNHV / FNLD / FN-OC / FNP / FN-PC / FNP-OC / FNPP / FNST / TF / TFAF- CS / TFCS / TFST / TG / TGCS / TGO / TN / TNAC / TNAS / TNAS-CS / TNCS / TNCSP / TNO / TNP / TNPP / TNST
CAS No	: 11138-66-2
No. EC	: 234-394-2
REACH registration number	: --

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

Use of the substance or mixture	: Food/feed additives, Cosmetic additive agent, Medical excipients, Industrial use
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Recommended restrictions on use : None known.

1.3 Detailed data on the supplier of the safety data sheet

Firm	Ekokoza s.r.o Fryčovice 297, 73945, Fryčovice ID: 07508247, eshop@ekokoza.cz
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1.4 Telephone number for emergency situations

National Chemical Emergency Center (NCEC)
+44 1865 407 333

Toxicology Information Center in the Czech Republic:

Na Bojišti 1, 128 21 Prague
Call: 224 919 293 or 224 915 402
Email: tis@vfn.cz (24 hours/day)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No. 1272/2008)

Not a hazardous substance or mixture.

2.2 Marking elements

Labeling (REGULATION (EC) No. 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a concentration of 0.1% or higher.

Ecological information: The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/ 605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/ 605 at levels of 0.1% or higher.

In case of dispersion, it can create an explosive dust-air mixture.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	: Xanthan gum
CAS No	: 11138-66-2
No. EC	: 234-394-2
Chemical essence	: Solid substance
Comment	: Does not contain dangerous components

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SECTION 4: First aid measures

4.1 Description of first aid

General instructions	: Do not leave the victim unattended.
When inhaled	: If the victim is unconscious, place him in a safe position and get medical attention. In case of persistent problems, call a doctor.
In contact with skin	: In case of skin contact, rinse with warm water.
In contact with eyes	: Remove contact lenses. Protect the uninjured eye. In case of persistent eye irritation, seek medical attention.
When ingested	: Maintain an open airway. Do not serve milk or alcoholic beverages. Never give anything by mouth to an unconscious person. In case of persistent problems, call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Not known.

4.3 Indication of immediate medical attention and special treatment

Treatment	: Symptomatic treatment.
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SECTION 5: Firefighting measures

5.1 Fire extinguishers

Suitable extinguishing agents	: water shower Dry powder Carbon dioxide (CO ₂) Foam
Unsuitable fire extinguishers	: Full flow of water

5.2 Special hazards arising from the substance or mixture

Specific firefighting hazards	: Exposure to decomposition products can be hazardous to health.
Hazardous combustion products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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5.3 Instructions for firefighters

Special protective equipment for firefighters	: When extinguishing, use a closed-circuit breathing apparatus if necessary.
More information	: Common precautions for chemical fires. Measures in case of fire should correspond to the surrounding conditions.

SECTION 6: Accidental release measures

6.1 Personal protection measures, protective equipment and emergency procedures

Measures for the protection of persons	: It is necessary to exclude the formation of dust.
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6.2 Environmental protection measures

Environmental protection measures	: If the product has contaminated a river or lake or entered a sewer, notify the appropriate authorities.
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6.3 Methods and material for containment and cleaning up

Cleaning methods	: Pick up carefully and store without dusting with household waste. Sweep up and pour into a suitable container for disposal. Store in a suitable closed container.
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6.4 Reference to Other Sections

See paragraphs: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Instructions for safe handling	: Prevent dust generation. Personal protection see section 8. Smoking, eating and drinking should be prohibited in the area of use.
Instructions for protection against fire and explosion	: In the event of dust, adequate ventilation must be ensured.
Hygiene measures	: General hygiene measures.
Dust explosion class	: Wed1

7.2 Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Requirements for storage areas and containers	: Store containers tightly closed in a dry, well-ventilated area place.
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Electrical installations / working materials must comply with technical safety standards.

Storage instructions : No materials that need to be explicitly mentioned.

Additional information on storage : Store in a dry place.
stability Decomposition does not occur if the specified method of storage and use is followed.

7.3 Specific end / specific end uses

Specific (specific) uses : none

SECTION 8: Exposure controls / personal protective equipment

8.1 Control parameters

It does not contain any substances with workplace exposure limit values.

8.2 Limiting Exposure

Technical measures

Ensure good ventilation.

Personal protective equipment

Eye and face protection : Safety glasses

Hand protection

Comment : Use suitable protective gloves.

Skin and body protection : Protective clothing

Respiratory protection : Use respiratory protection if adequate local ventilation is not provided or if exposure assessment does not verify that exposure does not exceed prescribed limit values.

The device must meet the requirements of EN143

Type filter : Particle type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical condition : powder

Color : off-white, beige

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Odor	: characteristic
Odor Threshold	: not set
Melting point/range	: Decomposes without melting.
Boiling point/boiling range	: Not applicable
Upper explosion limit / Upper flammability limit	: Data not available
Lower explosive limit / Lower flammability limit	: Data not available
Flash-point	: Not applicable
Ignition temperature	: Not applicable
Decomposition temperature	: Data not available
pH	: 5.5 - 8.5 (25 °C)
Viscosity	
Kinematic viscosity	: Not applicable
Solubility	
Solubility in water	: fully soluble substance
Solubility in other solvents	: Solvent: Alcohol insoluble substance, dispersible substance
Partition coefficient: n-octanol/water	: Data not available
Steam pressure	: Not applicable
Relative density	: Data not available
Density	: Data not available
Relative vapor density	: Not applicable
Particle size	
Evaluation	: Assessment: This substance/mixture does not contain nanoforms
Particle size	: approx. 0.02 - 1.2 mm

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9.2 Additional Information

Explosives	: Non-explosive
Oxidizing properties	: No oxidizing effect.
Spontaneous ignition	: not self-igniting
Dust explosion class	: Wed1

SECTION 10: Stability and reactivity

10.1 Reactivity

Decomposition does not occur if the specified method of storage and use is followed.

10.2 Chemical stability

Decomposition does not occur if the specified method of storage and use is followed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No hazard that needs to be explicitly stated.
Dust can form an explosive mixture with air.

10.4 Conditions to Avoid

Conditions to avoid : Data not available

10.5 Incompatible Materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

Hazardous/poisonous vapors may form when burning/at high temperatures.
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008

Acute toxicity

Not classified based on available information.

Harmless ingredients:

Xanthan gum:

Acute oral toxicity : LD50 oral (Rat): 45,000 mg/kg

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Assessment: The substance or mixture is not acutely orally toxic

LD50 oral (Mouse): 20,000 mg/kg

Assessment: The substance or mixture is not acutely orally toxic

Acute inhalation toxicity

: (Rat): 21 mg/l

Exposure time: 1 h

Assessment: The substance or mixture is not acutely toxic by inhalation

LC50/inhalation/4h/rat could not be determined because no mortality was

observed even at the maximum achievable concentration.

Acute dermal toxicity

: Does not irritate the skin

Skin corrosion/irritation

Not classified based on available information.

Harmless ingredients:

Xanthan gum:

Species : A rat

Exposure time : 360 h

Result : Does not irritate the skin

Species : Rabbit

Exposure time : 120 h

Result : Does not irritate the skin

Serious eye damage / eye irritation

Not classified based on available information.

Harmless additives:

Xanthan gum:

Species : A rat

Exposure time : 120 h

Result : No eye irritation

Respiratory sensitization / skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

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Harmless ingredients:

Xanthan gum:

Species : Guinea pig
Result : Does not cause sensitization in laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Harmless ingredients:

Xanthan gum:

Mutagenicity in germ cells - : No mutagenic effects were observed in animal experiments
Evaluation effects.

Carcinogenicity

Not classified based on available information.

Harmless ingredients:

Xanthan gum:

Carcinogenicity - Evaluation : Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified based on available information.

Harmless ingredients:

Xanthan gum:

Reproductive toxicity - : Data not available
Evaluation

Specific target organ toxicity - single exposure

Not classified based on available information.

Ingredients:

Xanthan gum:

Comment : Data not available

Specific target organ toxicity - repeated exposure

Not classified based on available information.

Harmless ingredients:

Xanthan gum:

Comment : Data not available

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Repeated dose toxicity

Harmless ingredients:

Xanthan gum:

Species	: A rat
	: < 1000 mg/kg
Method of execution	: Orally
Exposure time	: 24 h
Comment	: None observed in chronic toxicity tests adverse effects.
Repeated dose toxicity - Evaluation	: None observed in chronic toxicity tests adverse effects.

Aspiration toxicity

Not classified based on available information.

11.2 Information on additional hazards

Endocrine-disrupting properties

Product:

Evaluation	: The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 when levels of 0.1% or higher.
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More information

Product:

Comment	: Data not available
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SECTION 12: Ecological information

12.1 Toxicity

Harmless ingredients:

Xanthan gum:

Toxicity to fish	: (Oncorhynchus mykiss (rainbow trout)): 420 mg/l Exposure time: 96 h
No adverse effects were observed in acute toxicity tests	

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effects.

Toxicity to daphnia and other aquatic invertebrates : Data not available

Toxicity to algae/aquatic plants : Data not available

Toxicity to microorganisms :
Data not available

12.2 Persistence and Deployability

Harmless additives:

Xanthan gum:

Biodegradability : Biodegradation: 78%
Exposure time: 28 d
Method: OECD Test Guideline 301F
The substance is easily biodegradable.

Biological oxygen consumption (BOD) : 5-day biochemical oxygen consumption over 5 days
200 mg/g

12.3 Bioaccumulative potential

Harmless additives:

Xanthan gum:

Bioaccumulation : The product is miscible with water and easily biodegradable in water and soil. Accumulation in the organism is not expected.

12.4 Mobility in soil

Harmless additives:

Xanthan gum:

Distribution among environmental components : Data not available

Stability in soil : Substance easily biodegradable.

12.5 Results of PBT and vPvB assessment

Product:

Evaluation : The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT), or as very persistent and very bioaccumulative (vPvB) in concentration

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0.1% or higher.

12.6 Properties causing disruption of the endocrine system

Product:

Evaluation : The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 when levels of 0.1% or higher.

12.7 Other Adverse Effects

Product:

Additional ecological information : Data not available

SECTION 13: Disposal considerations

13.1 Waste management methods

Product	: In accordance with local and national regulations. Recycling takes precedence, if it can be done, over landfilling or incineration.
Contaminated packaging	: Empty packaging should be handed over to a licensed waste handling company for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

14.2 Official (UN) shipping name

ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

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14.3 Transport hazard class/classes

ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

14.4 Packaging group

ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA (Cargo)	: Not regulated as dangerous goods
IATA (Passenger)	: Not regulated as dangerous goods

14.5 Environmental hazard

Not regulated as dangerous goods

14.6 Special security measures for users

Not applicable

14.7 Maritime bulk transport according to IMO instruments

It does not apply to this product as it is delivered.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/specific legislation relating to the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
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REACH - List of substances of very high concern subject to authorization (Article 59).	: Not applicable
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Council (EC) No. 1005/2009 on substances that damage the ozone layer	: Not applicable
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Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
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Regulation (EC) No. 649/2012 of the European Parliament and of the Council on the export and import of hazardous chemical substances	: Not applicable
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REACH - List of substances subject to authorization (Appendix XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Volatile organic compounds : Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures (CLP)
Regulation (EC) No. 286/2011 of the European Parliament and of the Council amending, for the purpose of adaptation to technical progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures (CLP)
Act No. 350/2011 Coll. , on chemical substances and chemical mixtures, as amended
Act No. 258/2000 Coll. on the protection of public health, as amended
Act No. 262/2006 Coll., Labor Code, as amended
Act No. 201/2012 Coll. on air protection, as amended
Act No. 254/2001 Coll. on waters, as amended
Regulation of the Government of the Czech Republic No. 361/2007 Coll., which establishes conditions for the health protection of employees at work, as amended
Act No. 541/2020 Coll., on waste

The components of this product are listed in the following catalogs:

TSCA	: All substances are listed as active on the TSCA list
AIIC	: On or by list
DSL	: All ingredients in this product are on the Canadian DSL Hazardous Substances List
ENCS	: On or by list
ISHL	: On or by list
CRAP	: On or by list
PICCS	: On or by list

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IECSC	: On or by list
NZIoC	: On or by list
TCSI	: On or by list

15.2 Chemical safety assessment

A chemical safety assessment is not required for this substance.

SECTION 16: Further information

Full text of other abbreviations

ADN - European Agreement on the International Carriage of Dangerous Goods by River; ADR - Agreement on the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Testing Materials; bw - Body weight; CLP - Regulation on classification in packaging labelling; Regulation (EC) No. 1272/2008; CMR - Carcinogen, mutagen or reproductively toxic substance; DIN - Standard from the German Institute for Standardization; DSL - National Substances List (Canada); ECHA - European Chemicals Agency; EC Number - European Community number; ECx - Concentration at response x %; ELx - Load intensity at response x %; EmS - Emergency plan; ENCS - List of Existing and New Chemical Substances (Japan); ErCx - Concentration at response in the form of growth x %; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Hazardous Chemicals in Bulk; IC50 - Half maximum inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - List of existing chemicals in China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Act (Japan); ISO - International Organization for Standardization; KECI - List of Existing Chemical Substances - Korea; LC50 - Lethal concentration for 50% of the test population; LD50 - Lethal dose for 50% of the population under test (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; nose - Not otherwise specified; NO(A)EC - No Observed Adverse Effect Concentration; NO(A)EL -

Dose with no observed adverse effect; NOELR - No Observed Adverse Effect Load Intensity; NZIoC - New Zealand Inventory of Chemical Substances; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine List of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure-Activity Relationship; REACH - Regulation of the European Parliament and the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances (EC) No. 1907/2006; RID - Regulations on the International Rail Transport of Dangerous Goods; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substances List; TECI - List of Existing Chemical Substances - Thailand; TRGS - Technical rules for hazardous substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Highly persistent and highly bioaccumulative

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More information

The information in this safety data sheet is to the best of our knowledge, information and belief at the time of its issuance. The information provided is only intended as a guide for the safe handling, use, storage, processing, transportation, disposal and release of the product and should not be considered as a warranty or quality specification. The information applies only to the specific material named and may become invalid if used in combination with any other materials or in any processes unless specifically stated in the text.