

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Jungbunzlauer

Xanthan Gum

Version	Revision Date:	SDS Number:	Date of last issue: 23.06.2017
1.5	03.10.2019	100000000005	Date of first issue: 02.12.2010
REG_EU_			
RED/EN			

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 / FFDF / FFJ / FFOC / FFP / FFPC / FFST / FG / FGDF / FN / FNAF-CS / FNCS / FNCS-LD / FNCS-LDK / FNCS-OC / FNCS-PC / FNCSP-PC / FNDF / FNHV / FNLD / FNOC / FNP / FNPC / FNPP / FNST / TF / TFAF-CS / TFCS / TFST / TG / TGCS / TGO / TN / TNAS / TNAS-CS / TNCS / TNO / TNP / TNPP
Molecular formula	: (C35-H49-O29) _n
CAS-No.	: 11138-66-2
EC-No.	: 234-394-2

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

Use of the Sub- stance/Mixture	: Food/ feedstuff additives, Cosmetic additive, Medical aids, Industrial use
Recommended restrictions on use	: None known.

1.3 Details of the supplier of the safety data sheet

Company	: Jungbunzlauer Austria AG Werk Pernhofen 2064 Wulzeshofen Austria www.jungbunzlauer.com
Telephone	: +43 2527 200-0
Telefax	: +43 2527 200-80
Responsible/issuing person	: msds@jungbunzlauer.com

1.4 Emergency telephone number

Telephone	: National Chemical Emergency Centre (NCEC) +44 1865 407 333
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SAFETY DATA SHEET

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REG_EU_ RED / EN			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	:	Xanthan Gum
CAS-No.	:	11138-66-2
EC-No.	:	234-394-2
Chemical nature	:	Solid
Remarks	:	Non-hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Get medical advice/ attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
If inhaled	:	If breathed in, move person into fresh air.
In case of skin contact	:	Wash off with warm water.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If easy to do, remove contact lens, if worn.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	No information available.
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REG_EU_ RED / EN			

Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Dry powder
Carbon dioxide (CO₂)
Foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products formed under fire conditions.
Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation, especially in confined areas.
Wear personal protective equipment.

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REG_EU_ RED / EN			

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Non-sparking tools should be used.
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Dust explosion class : St1

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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REG_EU_ RED / EN			

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks

: Wear suitable gloves.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Half mask with a particle filter P2 (EN 143)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: off-white, beige
Odour	: characteristic
Odour Threshold	: not determined
pH	: 6 - 8
Melting point/range	: Decomposes without melting.
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: does not ignite
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable

SAFETY DATA SHEET

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REG_EU_ RED / EN			

Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	insoluble, dispersible Solvent: Alcohol
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	No oxidising effect.

9.2 Other information

Dust explosion class	:	St1
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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
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10.4 Conditions to avoid

Conditions to avoid	:	Avoid dust formation.
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10.5 Incompatible materials

Materials to avoid	:	No data available
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Jungbunzlauer

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1.5	03.10.2019	1000000000005	Date of first issue: 02.12.2010
REG_EU_ RED / EN			

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Carbon dioxide (CO₂)

Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Xanthan Gum:

Acute oral toxicity	:	LD50 Oral (Rat): 45.000 mg/kg LD50 Oral (Mouse): 20.000 mg/kg
Acute inhalation toxicity	:	(Rat): 21 mg/l Exposure time: 1 h Assessment: The substance or mixture has no acute inhalation toxicity An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	:	No skin irritation

Skin corrosion/irritation

Components:

Xanthan Gum:

Species	:	Rat
Exposure time	:	360 h
Result	:	No skin irritation
Species	:	Rabbit
Exposure time	:	120 h
Result	:	No skin irritation

Serious eye damage/eye irritation

Components:

Xanthan Gum:

Species	:	Rat
Exposure time	:	120 h
Result	:	No eye irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Jungbunzlauer

Xanthan Gum

Version	Revision Date:	SDS Number:	Date of last issue: 23.06.2017
1.5	03.10.2019	100000000005	Date of first issue: 02.12.2010
REG_EU_ RED / EN			

Respiratory or skin sensitisation

Components:

Xanthan Gum:

Species	:	Guinea pig
Result	:	Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

Xanthan Gum:

Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.
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Carcinogenicity

Components:

Xanthan Gum:

Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.
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Repeated dose toxicity

Components:

Xanthan Gum:

Species	:	Rat
	:	< 1000 mg/kg
Application Route	:	Oral
Exposure time	:	24 h
	:	No adverse effect has been observed in chronic toxicity tests.

Repeated dose toxicity - Assessment	:	No adverse effect has been observed in chronic toxicity tests.
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SECTION 12: Ecological information

12.1 Toxicity

Components:

Xanthan Gum:

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

SAFETY DATA SHEET

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Jungbunzlauer

Xanthan Gum

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REG_EU_ RED / EN			

12.2 Persistence and degradability

Components:

Xanthan Gum:

Biodegradability	:	Biodegradation: 78 % Exposure time: 28 d Method: OECD Test Guideline 301F Readily biodegradable.
Biochemical Oxygen Demand (BOD)	:	Biochemical oxygen demand within 5 days 200 mg/g

12.3 Bioaccumulative potential

Components:

Xanthan Gum:

Bioaccumulation	:	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
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12.4 Mobility in soil

Components:

Xanthan Gum:

Distribution among environmental compartments	:	No data available
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12.5 Results of PBT and vPvB assessment

Components:

Xanthan Gum:

Assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..
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12.6 Other adverse effects

Components:

Xanthan Gum:

Additional ecological information	:	This product has no known ecotoxicological effects.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

SAFETY DATA SHEET

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Product	:	In accordance with local and national regulations. Where possible recycling is preferred to disposal or incineration. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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 1999/13/EC Not applicable
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The components of this product are reported in the following inventories:

EINECS	:	On the inventory, or in compliance with the inventory
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REG_EU_ RED / EN			

TSCA	:	All substances listed as active on the TSCA inventory
AICS	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
NZIoC	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
REACH	:	This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; 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 Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical

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Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.