

Xanthan Gum

Version 1.4 Revision Date:
CA / EN 22.01.2024

SDS Number:
100000000005

Date of last issue: 12.11.2021
Date of first issue: 23.02.2018

SECTION 1. IDENTIFICATION

Product name : Xanthan Gum

Substance name : Xanthan Gum

Trade 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

Chemical nature : Solid

Other means of identification : No data available

Details of the supplier of the safety data sheet

Company : Jungbunzlauer Austria AG
Werk Pernhofen
Wulzeshofen 2064
Austria
www.jungbunzlauer.com

Telephone : +43 2527 200-0
Telefax : +43 2527 200-80
E-mail address : msds@jungbunzlauer.com
Responsible/issuing person

Initial Supplier Identifier
Données relatives au fournisseur

Univar Solutions Canada Ltd.

64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

Emergency telephone number

National Chemical Emergency Centre (NCEC)
+1 202 464 2554

Recommended use of the chemical and restrictions on use

Recommended use : Food/ feedstuff additives
Cosmetic additive
Medical aids
Industrial use

Restrictions on use : None known.

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SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the Hazardous Products Regulations**

Combustible dust : Category 1

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

Chemical nature : Solid

Substance name : Xanthan Gum

CAS-No. : 11138-66-2

Common Name/Synonym : No data available

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms
and effects, both acute and
delayed : None known.

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SECTION 5. FIREFIGHTING MEASURES

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

Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

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- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
- Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : Keep in a dry place.
No decomposition if stored and applied as directed.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Provide adequate ventilation.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : off-white, beige

Odour : characteristic

Odour Threshold : not determined

pH : 5.5 - 8.5 (25 °C)

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Melting point/range	: Decomposes without melting.
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Flammability (solid, gas)	: May form explosive dust-air mixture.
Self-ignition	: not auto-flammable
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
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
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: No oxidising effect.
Dust explosion class	: St1
Particle size	: ca. 0.02 - 1.2 mm

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	: No data available
Incompatible materials	: Not applicable
Hazardous decomposition products	: Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

Acute oral toxicity	: LD50 Oral (Rat): 45,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity LD50 Oral (Mouse): 20,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
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	: Remarks: No skin irritation

Skin corrosion/irritation

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

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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

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

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

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

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

Germ cell mutagenicity

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

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

Carcinogenicity

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

Carcinogenicity - : Not classifiable as a human carcinogen.
Assessment

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Reproductive toxicity

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

Reproductive toxicity - : No data available
Assessment

STOT - single exposure

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Non-hazardous ingredients:**Xanthan Gum:**

Remarks : No data available

Repeated dose toxicity**Non-hazardous ingredients:****Xanthan Gum:**

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

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

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : No data available

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Non-hazardous ingredients:****Xanthan Gum:**

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 420 mg/l
Exposure time: 96 h

Remarks: No adverse effect has been observed in acute toxicity tests.

Toxicity to daphnia and other : Remarks: No data available
aquatic invertebrates

Toxicity to algae/aquatic : Remarks: No data available
plants

Toxicity to microorganisms : Remarks: No data available

Persistence and degradability**Components:****Xanthan Gum:**

Biodegradability : Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Readily biodegradable.

Biochemical Oxygen : Biochemical oxygen demand within 5 days
Demand (BOD) 200 mg/g

Bioaccumulative potential**Components:****Xanthan Gum:**

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

Mobility in soil**Components:****Xanthan Gum:**

Distribution among : Remarks: No data available
environmental compartments

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Additional ecological information : No data available

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Not applicable

ENCS : On the inventory, or in compliance with the inventory

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ISHL	: On the inventory, or in compliance with the inventory
KECI	: 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
NZIoC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;

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vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines, red letters and grey shading.

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