

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

Xanthan gum

1. Identification of the substance/mixture and company

Trade name: Xanthan gum
Thickening agent and stabilizer, a rheology control agent in aqueous systems and a stabilizer for emulsions, suspensions and foams, provides clear (transparent) solutions

INCI Xanthan gum
CAS No. : 11138-66-2
EINECS No. : 234-394-2
REACH pre-registration No. : -
Utilization: Raw material for cosmetic or professional use
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

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

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

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

2.3 Other hazards

May form explosive dust-air mixture if dispersed.

3. Declaration of ingredients

3.1. Substances

Non-hazardous ingredients.

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.

Risks: None known.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire fighting 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.

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.

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.

Keep in suitable, closed containers for disposal.

Clean contaminated surface thoroughly.

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6.4 Reference to other sections: For personal protection see section 8. For disposal considerations see section 13.

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.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): none

8. Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures: Provide adequate ventilation.

Personal protective equipment: Eye protection: Safety glasses.

Hand protection: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. 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).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : powder

Color : off-white, beige

Odor : characteristic

Odor 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 : No data available

Lower explosion limit : No data available

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Vapor pressure : Not applicable
Relative vapor density : Not applicable
Relative density : No data available
Density : No data available
Bulk density : 650 - 850 kg/m³
Water solubility : completely soluble
Solubility in other solvents : Solvent: Alcohol insoluble, dispersible
Partition coefficient: n-octanol/water: No data available
Ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, dynamic : Not applicable
Viscosity, kinematic : Not applicable
Explosive properties : Not explosive
Oxidizing properties : No oxidizing effect.

9.2 Other information

Dust explosion class : St1

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.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

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

Carbon dioxide (CO₂), Carbon monoxide.

11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral (Rat): 45.000 mg/kg
	LD50 Oral (Mouse): 20.000 mg/kg

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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	Species: Rat Exposure time: 360 h Result: No skin irritation No skin irritation
	Species: Rabbit Exposure time: 120 h Result: No skin irritation No skin irritation
Serious eye damage/ eye irritation	Species: Rat Exposure time: 120 h Result: No eye irritation No eye irritation
Respiratory or skin sensitization	Species: Guinea pig Result: Did not cause sensitization on laboratory animals. No known sensitizing effect.
Germ cell mutagenicity- Assessment	Animal testing did not show any mutagenic effects.
Carcinogenicity - Assessment	Not classifiable as a human carcinogen.
Effects on fertility	Species: Rat Dose: 0.5 g/kg/d Fertility and developmental toxicity tests did not reveal any effect on reproduction.
Repeated dose toxicity	Species: Rat Dose: < 1000 mg/kg Application Route: Oral Exposure time: 24 h No adverse effect has been observed in chronic toxicity tests.

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12. Ecological information

12.1 Toxicity

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

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

Partition coefficient: n-octanol/water	No data available
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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

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

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

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

13.1 Waste treatment methods

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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.

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.

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

Remarks: Not applicable

The components of this product are reported in the following inventories:

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

TSCA : On TSCA Inventory

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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
 IECS : 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.

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service (division of the American Chemical Society).
 CLP: Classification, Labeling, Packaging.
 DNEL: Derived No Effect Level.
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 IATA: International Air Transport Association.
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
 IMDG: International Maritime Code for Dangerous Goods.
 INCI: International Nomenclature of Cosmetic Ingredients.
 LTE: Long-term exposure.
 PNEC: Predicted No Effect Concentration.
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
 STE: Short-term exposure.
 STEL: Short Term Exposure limit.
 STOT: Specific Target Organ Toxicity.

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

Compounds	CAS	% Natural	% Synthetic	% Total
3 and 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde	31906-04-4	-	-	-
alpha-Amylcinnamyl alcohol	101-85-9	-	-	-
alpha-Amylcinnamaldehyde	122-40-7	-	-	-
alpha-Hexylcinnamaldehyde	101-86-0	-	-	-

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alpha-iso-Methylionone	127-51-5	-	-	-
Anisyl alcohol	105-13-5	-	-	-
Benzyl alcohol	100-51-6	-	-	-
Benzyl benzoate	120-51-4	-	-	-
Benzyl cinnamate	103-41-3	-	-	-
Benzyl salicylate	118-58-1	-	-	-
Cinnamaldehyde	104-55-2	-	-	-
Cinnamyl alcohol	104-54-1	-	-	-
Citral	5392-40-5	-	-	-
Coumarin	91-64-5	-	-	-
dl-Citronellol	106-22-9	-	-	-
d-Limonene	5989-27-5	-	-	-
Eugenol	97-53-0	-	-	-
Farnesol	4602-84-0	-	-	-
Geraniol	106-24-1	-	-	-
Hydroxycitronellal	107-75-5	-	-	-
Isoeugenol	97-54-1	-	-	-
Linalool	78-70-6	-	-	-
Methyl 2-octynoate	111-12-6	-	-	-
Oakmoss absolute	9000-50-4, 689	-	-	-
p-t-Butyl-alpha-methylhydrocinnamic aldehyde	80-54-6	-	-	-
Treemoss (E. furfurac.)	68648-41-9, 68	-	-	-
Total:		-	-	-

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.