

SAFETY DATA SHEET

2001/58/EC

Product name

Xanthan Gum

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product name	Xanthan Gum
Use of the substance:	Food, pharmaceutical and industrial additive (Thickener, stabiliser)
Company/Undertaking Identification	
# Supplier	JUNGBUNZLAUER Austria AG A-2064 Pernhofen Austria
Telephone:	++43 (2527) 200 - 0
Telefax:	++43 (2527) 200 - 80
Emergency telephone number:	++43 (2527) 200 - 0

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name of the substance	Polysaccharide (C ₃₅ H ₄₉ O ₂₉) _n
Chemical Name	Xanthan Gum
EC-No.	234-394-2
CAS-No.	11138-66-2
Hazardous impurities	None

3. HAZARDS IDENTIFICATION

Most important hazards	Health injuries are not known or expected under normal use. Ecological injuries are not known or expected under normal use.
------------------------	--

4. FIRST AID MEASURES

General advice	Immediate medical attention is not required. No hazards which require special first aid measures.
Inhalation	Move to fresh air.
Skin contact	Rinse with water. If skin irritation persists, call a physician.
Eye contact	Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.
Ingestion	Drink water as a precaution. Do not induce vomiting.
Protection of first-aiders	No special precautions required.

SAFETY DATA SHEET

2001/58/EC

Product name

Xanthan Gum

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray , dry powder, foam , carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons	None
Hazardous decomposition products	Carbon oxides
Special protective equipment for firefighters	Use personal protective equipment.
Specific methods	Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid dust formation.
Environmental precautions	Prevent further leakage or spillage if safe to do so. No special environmental precautions required.
Methods for cleaning up	Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling:	
Technical measures/Precautions	No special technical protective measures required.
Storage:	
Technical measures/Storage conditions	Keep tightly closed in a dry and cool place.
Incompatible products	No special restrictions on storage with other products..
Packaging material	Polyethylene lined cardboard boxes or paper bags
Specific use(s)	See chapter 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls	
Engineering measures to reduce exposure	Ensure adequate ventilation, especially in confined areas.
Exposure Limit Values	We are not aware of any national exposure limit.
Respiratory protection	Effective dust mask
Hand protection	Not required under normal use.
Eye protection	Safety glasses
Skin and body protection	No special precautions required
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No special environmental precautions required.

SAFETY DATA SHEET

2001/58/EC

Product name

Xanthan Gum

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information (appearance, odour):

Form	Free flowing powder
Colour	White / beige
Odour	Characteristic

Important Health Safety and Environmental Information:

pH, 1% solution, 25°C	6.0 - 8.0
Decomposition temperature	No data available
Flash point	No data available
Explosive properties	No data available
Bulk density	650 - 850 kg/m ³
Water solubility, 25°C	Completely soluble

Other information:

Melting point/range	Not applicable
Autoignition temperature	> 200°C
Solubility in other solvents	insoluble in alcohol, 25°C

10. STABILITY AND REACTIVITY

Stability	Stable at normal conditions. Hazardous polymerisation does not occur.
Conditions to avoid	None under normal use.
Materials to avoid	None under normal use.
Hazardous decomposition products	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50/p.o./rat = 45.000 mg/kg ⁽¹⁾
Eye irritation	None ⁽²⁾
Skin sensitisation	None ⁽³⁾
Chronic toxicity, Oral, rat	None < 1000 mg/kg/24h ⁽⁴⁾
Human experience	Health injuries are not known or expected under normal use.

SAFETY DATA SHEET

2001/58/EC

Product name

Xanthan Gum

12. ECOLOGICAL INFORMATION

Mobility	Completely soluble
Biochemical oxygen demand within 5 days (BOD5)	200 mg O ₂ /g (DIN EN 29408) ⁽⁵⁾
Readily biodegradable	93% after 14 days (DIN EN 29888) ⁽⁵⁾
Bioaccumulation	No data available
Ecotoxicity	LC50/96h/rainbow trout = 420 mg/l ⁽⁶⁾

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	Where possible recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
Further Information	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.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

EU Food Additive	E 415	ADI (acceptable daily intake)	Not specified
------------------	-------	-------------------------------	---------------

Sources of key data used to compile the datasheet

- (1) Jackson, N. N., Woodard, M. W. & Woodard, G., report from Woodard Research Corporation, Herdon, VA, USA
- (2) Hendrickson, A.P. & Booth, A.N. report from the Western Regional Research laboratory, USDA, Albany, CA, USA
- (3) Durloo, R.S. & Johnston, C.P. (1973), report from Woodard research corporation, Herdon, VA, USA
- (4) Woodard, G et. al. (1973), Toxicol. Appl. Pharmacol., 24, 30-36
- (5) Jungbunzlauer, internal report Dec. 99
- (6) Sprague, J.B. and Logan, W. J. (1979) Environ. Pollut. 19(4), 269-281

Indicates updated section.

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.