



Safety Data Sheet

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) No. 453/2010 of 20 May 2010

Revision Number: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: 4308 Xantangum

<u>Xanthan gum</u>	
CAS Number	11138-66-2
% by Wt	Not classified
EC No	234-394-2
REACH registration number	Exempt
(CLP) Regulation (EC 1272/2008)	Not classified

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

Recommended Use Stabilizer. Thickening agent. Cosmetics. Food.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company: Naturkosmetikkompaniet AB
Ullevi Enestorp 3
59491 Gamleby
Tel: 0493-53999
Fax: 0493-12630

Internet www.naturkosmos.se

E-mail info@naturkosmos.se

1.4. Emergency telephone number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008) Not classified

Hazards Identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Not classified



Safety Data Sheet

Revision Number: 1.2

2.2. Label elements

Symbols/Pictogram None

Signal Word None

Hazard Statements

This product is not classified as hazardous according to the UN GHS guideline and labeling is not required
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Precautionary Statements

Prevention Employ good industrial hygiene practice. Wash hands thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

Storage Keep in a dry place. Store away from incompatible materials.

Disposal Dispose of contents/containers in accordance with local regulations.

2.3. Other hazards

COMBUSTIBLE DUST MAY FORM COMBUSTIBLE (EXPLOSIVE) DUST/ AIR MIXTURES.

SECTION 3: Composition/information on ingredients

Chemical Name	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)
Xanthan gum 11138-66-2	234-394-2	Exempt	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye Contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash with plenty of soap and water.
Ingestion	Rinse mouth thoroughly with water.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2. Most important symptoms and effects, both acute and delayed Inhalation of dust may cause irritation of the respiratory system. Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Water spray (fog). Dry chemical. Carbon dioxide (CO₂). Foam.

Unsuitable Extinguishing Media None known.

5.2. Special hazards arising from the substance or mixture Avoid dust formation.

Hazardous Combustion Products Carbon dioxide
Carbon monoxide

5.3. Advice for firefighters

Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-fighting measures COMBUSTIBLE DUST MAY FORM COMBUSTIBLE (EXPLOSIVE) DUST/AIR MIXTURES.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Avoid dust formation. Keep unauthorized personnel away. Slippery, can cause falls if walked on. Use personal protection recommended in Section 8.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in Section 8.



Safety Data Sheet

Revision Number: 1.2

- 6.2. Environmental precautions** Dispose of in accordance with federal, state and local regulations.
- 6.3. Methods and material for containment and cleaning up** Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Small Spill: Vacuum or sweep material and place in a disposal container.
- 6.4. Reference to other sections** Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with skin, eyes or clothing. Avoid prolonged contact with material. Use personal protection recommended in Section 8. Employ good industrial hygiene practice.
- 7.2. Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. See section 10.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Chemical Name	Xanthan gum - 11138-66-2
Exposure limits	Not established
ACGIH - TLV-TWA 8-hour	0.1 mg/m ³
OSHA - TWA	Not established
Russia - TWA - MAC	0.1 mg/m ³

Biological Limit Values: None

Recommended monitoring procedures Refer also to national guidance documents for information on currently recommended monitoring procedures

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear suitable protective clothing.
Hand Protection	Wear suitable gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.

Thermal hazards Wear suitable protective clothing.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace practices.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical State	Solid.
Form	Powder
Color	White to Tan
Odor	Odorless
Odor Threshold	No information available
pH:	Approximately neutral, solution (1 %)
Melting Point / Melting Range	Not applicable
Boiling Point	Not applicable
Freezing Point	Not applicable
Flash Point:	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Water Solubility	Soluble
Partition coefficient n-octanol/water (log Kow)	No information available
Autoignition Temperature	Not applicable
Viscosity	No data available
Specific Gravity	No data available
Explosive Properties	Not applicable



Safety Data Sheet

Revision Number: 1.2

Oxidizing Properties Not oxidizing
Decomposition temperature °C No data available

SECTION 10: Stability and reactivity

10.1. Reactivity None
10.2. Chemical stability Stable under normal conditions
10.3. Possibility of hazardous reactions Hazardous polymerization does not occur
10.4. Conditions to avoid Keep away from heat, sparks and flame.
10.5. Incompatible materials Strong oxidizing agents.
10.6. Hazardous decomposition products None known

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Information on Likely Routes of Exposure

Inhalation Inhalation of dust may cause irritation of the respiratory system. May cause respiratory tract irritation.
Skin Prolonged exposure may cause skin irritation.
Eyes May cause irritation.
Ingestion None known.

Symptoms Inhalation of dust may cause irritation of the respiratory system

11.1. Information on toxicological effects

Acute Toxicity Not classified.
Serious eye damage/eye irritation Based on available data, the classification criteria are not met.
Respiratory Sensitization Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation Prolonged or repeated contact may dry skin and cause irritation.
Skin Sensitization Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Reproductive Effects This product does not contain any known or suspected reproductive hazards.

Reproductive toxicity:	Based on available data, the classification criteria are not met.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Specific target organ toxicity - Single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Repeated exposure	Based on available data, the classification criteria are not met.
Chronic Effects	Not classified.
Mixture versus substance information	No information available.

SECTION 12: Ecological information

12.1	
Ecotoxicity	Not classified.
<u>Xanthan gum - 11138-66-2</u>	
96-Hour LC50	Oncorhynchus mykiss (rainbow trout) 490 mg/l
48-Hour EC50	Daphnia Magna (Water Flea) mg/l
BOD	BOD = ~200 mg O ₂ /gram
COD	COD = ~1600 mg O ₂ /gram
12.2. Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log K_{ow})	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
12.6. Other adverse effects	None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal
Waste codes	Waste codes should be assigned by the user based on the application for which the product was used
Disposal Methods	Dispose of waste product or used containers according to local regulations



Safety Data Sheet

Revision Number: 1.2

Xanthan gum - 11138-66-2

European Waste Catalog 160306

SECTION 14: Transport information

Mode of Transportation(Road, Water, Air, Rail)

ICAO	Not regulated
IMDG / IMO	Not regulated
RID/ADR	Not regulated
DOT	Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

Global Inventories

Chemical Name	Australia (AICS)	Canada (DSL)	China (IECSC)	EC No	REACH registration number	Japan (ENCS)	KOREA (KECI)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Xanthan gum - 11138-66-2	Y	Y	Y	234-394-2	Exempt	Y	KE-35422	Y	Y	Y	Y	Y

Legend

Y: Yes N: No

SECTION 16: Other information

Prepared by

Reason for Revision

COMMISSION REGULATION (EU) No. 453/2010 of 20 May 2010.

(CLP) Regulation (EC 1272/2008) Not classified

Labeling

Symbols/Pictogram None.

Signal Word None

Hazards identification

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Health Hazards Not classified

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Safety Data Sheet

Revision Number: 1.2

Hazard Statements	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Specific Hazards Arising from the Chemical	Warning. COMBUSTIBLE DUST MAY FORM COMBUSTIBLE (EXPLOSIVE) DUST/AIR MIXTURES. Material becomes extremely slippery when wet.
Training Advice	Do not handle until all safety precautions have been read and understood.
Abbreviations and acronyms	ACRONYMS: INTERNATIONAL: ADR: International Carriage of Dangerous Goods by Road. BOD: Biochemical Oxygen Demand. CLP: Classification, Labeling and Packaging. COD: Chemical Oxygen Demand. D.O.T.: U.S. Department of Transportation. ICAO International Civil Aviation Organization. IATA: International Air Transport Association. IARC: International Agency for Research on Cancer. IMO: International Maritime Organization. IMDG: International Maritime Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients. OES: Occupational Exposure Standard. OR: EU REACH Only Representative. PPE: Personal protection equipment. RID: International Carriage by Rail. SCBA: self contained breathing apparatus. TLV-STEL: Threshold Limit Values - Short Term Exposure Limits. TWA: Time Weighted Averages. North America: CERCLA RQ: US EPA Comprehensive Environmental, Response, and Liability Act Reportable Quantity. CERCLA: US EPA Comprehensive Environmental Response, Compensation, and Liability Act of 1980. CONEG: Conference of North Eastern Governors. NIOSH/MSHA - National Institute for Occupational Safety and Health/Mine Safety and Health Administration. SARA: Superfund Amendments and Reauthorization Act (US EPA). TDG: Canada Transport of Dangerous Goods. WHMIS: Canada's Workplace Hazardous Materials Information System.
Disclaimer	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

End of Safety Data Sheet

4308 Xantangum

DESCRIPTION

Dust free, dispersible transparent grade and quick soluble

This product is a food additive used as a texturant.

It is a cold soluble thickener offering excellent solution clarity and providing high viscosity and pseudoplasticity at low concentration.

It is suited to various food applications.

This granulated xanthan gum is a perfect substitute for standard clear xanthan gum, since it has identical functional properties. Only the powder characteristics are modified, in order to improve the method of use: a higher particle size, together with the porosity of the grains eliminates dust and accelerates the dispersion and dissolution.

This product consists of:

- Xanthan gum E415

PRODUCT CLASSIFICATION

INS 415

Country of Origin

France

SPECIFICATIONS

Chemical/physical specifications

Parameter		Unit	Min	Typical	Max	Text
Viscosity	1% sol.(+ 1% KCl)	mPa.s	1300		1800	*
pH	1% sol.		6.1		8	
Loss on drying	-	%			15	(1)
Residual alcohol	-	ppm			500	** (1)
Granulometry	< 100 µm (US 140#)	%			10	
Granulometry	> 250 µm (US 60#)	%	50			
Ash	on Dry Matter	%			16	(1)
Pyruvic acid	-	%	1.5			(1)
Nitrogen content	-	%			1.5	(1)
Turbidity	0.2% sol.	NTU			15	

* Viscosity: measured on a Brookfield LVF viscometer, spindle N°3, 60 rpm

** Residual alcohol: Isopropanol and Ethanol, singly or in combination

(1) Parameters tested based on a monitoring plan on xanthan range (CoC)

Microbiological specifications

Parameter		Unit	Min	Typical	Max	Text
Total plate count	/g				2000	
Yeasts+moulds	/g				200	
E. coli	/5g					absent
Salmonella	/10g					absent

Parameters tested based on a monitoring plan on xanthan range (CoC)

Residues and contaminants

Parameter		Unit	Min	Typical	Max	Text
Lead	-	mg/kg			2	

Parameter tested based on a monitoring plan on xanthan range (CoC)

Typical product data

Parameter		Unit	Typically
Appearance	-		White to cream coloured powder
Odour+taste	-		neutral

Allergens (Legal directives)
Allergen information

	Presence	Comment
Cereals containing gluten and products thereof	No	*
Wheat and products thereof	No	
Crustaceans and products thereof	No	
Eggs and products thereof	No	
Fish and products thereof	No	
Peanuts and products thereof	No	
Soybeans and products thereof	No	
Milk and products thereof (including lactose)	No	
Nuts and products thereof	No	**
Celery and products thereof	No	
Mustard and products thereof	No	
Sesame seeds and products thereof	No	
Sulphur dioxide and sulphites	No	
Lupins and products thereof	No	
Molluscs and products thereof	No	

* Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains)

** Nuts i.e.: almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachio nuts, macadamia nuts or Queensland nuts

The above list of allergens is in accordance with Annex II of Regulation (EU) n° 1169/2011 on food information to consumers

The above list of allergens is in accordance with Food Allergen Labeling and Consumer Protection Act (FALCPA)

The above list of allergens is in accordance with Health Canada, the Canadian Food Inspection Agency (CFIA)

Dietary information

Suitable for	Certified		Comment
Halal	Yes	No	
Kosher	Yes	Yes	Kosher parve
Vegan	No	No	

GMO statement

This product is not required to be labeled in accordance with the GMO labeling provisions of REGULATION (EC) No 1829/2003 and 1830/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 September 2003.

This product has been produced with a non genetically modified carbohydrate, and a non genetically modified nitrogen source.

Legal requirements

Food additives contained in this product comply with the definition and specifications from JECFA (FAO/WHO), FDA (21 CFR) and EU Commission Regulation 231/2012 as amended.

However, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the product is to be consumed.

STANDARD PACKAGING

10 kg (net) cartons lined with PE bags

RECOMMENDED STORAGE CONDITIONS

Store under cool and dry conditions

SHELF LIFE FOR PACKED PRODUCT

Shelf life after production date (months): 36

SHELF LIFE COMMENTS

The specified shelf life can only be guaranteed for this product if the above mentioned recommended storage conditions are respected.

FUNCTIONALITY

DISPERSION

To disperse the product without lumps:

- premix the powder with the other dry ingredients,
 - or, disperse it in a non-solvent medium (oil, alcohol),
- and pour the preparation into the liquid while stirring. Continue stirring to obtain a complete dispersion.

DISSOLUTION

The dissolution of the product depends on the medium and the process:

it is improved by heat-treatment (time, temperature), shear-stress (propeller, exchanger, homogenizer).
A complete dissolution can be obtained in cold conditions.

APPLICATION

For food applications

MEDIA / USES

The product can be used in aqueous, dairy, or fruit media, with various total solids contents.
The maximum dosage is about 1.5% according to the medium and the required final texture.

This product is not suitable for lacto-vegetarian and vegan diets.

Country of origin definition:

Country of Origin or product origin is defined as the country where the material was manufactured/produced/cultivated.

When the material undergoes substantial transformation in a second country, the country in which the transformation is performed shall be considered the country of origin.

Disclaimer:

The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. WE THEREFORE DISCLAIM TO THE FULLEST EXTENT PERMITTED BY LAW, ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED REGARDING THE INFORMATION OR PRODUCTS REFERRED TO HEREIN, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF SATISFACTORY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE. We accordingly also exclude all liability in connection with the purchaser's/user's use of the products or the information referred to herein. All such risks are assumed by the purchaser/user. Further, the information contained herein is subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

4308 Xantangum

Nutritional Information					
Average values per 100g	Unit	EU	US	Japan	Comment
Energy (kcal)	kcal	170	328	12	
Calories from Sat. Fat	kcal	0	0	0	
Energy (kJ)	kJ	680	1394	51	
Total fat	g	0	0	0	
of which saturated	g	0	0	0	
of which Trans Fat	g	0	0	0	
Cholesterol	mg	0	0	0	
Total carbohydrates	g	0	79	0	
of which sugars	g	0	0	0	
Added sugars	g		0		
Dietary Fiber	g	79	0	79	
Protein	g	3	3	3	
Sodium	mg	3550	3550	3550	
Calcium	mg	50	50	50	
Potassium	mg	320	320	320	
Magnesium	mg	70	70	70	
Iron	mg	0	0	0	
Vitamin A	mcg (RAE)	0	0	0	
Vitamin C	mg	0	0	0	
Vitamin D	mcg	0	0	0	
Water	g	9	9	9	
Ash	g	9	9	9	

The list comprises relevant nutritional components only.

Values are calculated based on the average of product specifications. In those cases where only a minimum or a maximum value is specified, these values were taken respectively.

The EU column lists the nutritional values in accordance with Regulation (EU) n° 1169/2011 on food information to consumers.

The US column lists the nutritional values in accordance with Code of Federal Regulations (CFR 21).

The Japan column lists the nutritional values in accordance with the Japanese Legislation.

The energy values may differ per region because of different calculations.