



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	XG100
Item number	Xanthan Gum
Substance name	Xanthan Gum
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 Substance/Mixture	Food/ feedstuff additives, Cosmetic additive, Medical aids, Industrial use
------------------------------	--

1.3 Details of the supplier of the safety data sheet

Company	Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1
---------	---

Telephone	604-540-8700 (Monday-Friday 8:30 am-4:30 pm)
Telefax	
E-mail address	

1.4 Emergency telephone number 604-540-8700 (Monday-Friday 8:30 am-4:30 pm)

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.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

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

Additional advice:

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

3. Composition/information on ingredients

3.1 Substances

Chemical nature : Solid

Substance name	CAS-No.	Concentration [%]
No dangerous ingredients according to Regulation (EC) No. 1907/2006 :		
Xanthan Gum	11138-66-2	<= 100

3.2 Mixtures

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 : Immediately flush skin with large amounts of water.

In case of eye contact : If easy to do, remove contact lens, if worn.
Immediately flush eye(s) with plenty of water.

If swallowed : Drink water as a precaution.
If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media : none

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.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Further information : Standard procedure for chemical fires.
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.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

No conditions to be specially mentioned.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.
Do not breathe dust.
Avoid contact with skin and eyes.

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

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, well-ventilated place

Further information on storage conditions : Avoid moisture.
Do not store at temperatures above 30 °C / 86 °F.

Advice on common storage : No special restrictions on storage with other products.

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

7.3 Specific end use(s)

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

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)

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.

Eye protection : Safety glasses

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not breathe dust.
Avoid contact with skin, eyes and clothing.

Environmental exposure controls

General advice : No special environmental precautions required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: off-white beige
Odour	: characteristic
Flash point	: Not applicable
Ignition temperature	: No data available
Flammability (solid, gas)	: does not ignite
Auto-ignition temperature	: > 200 °C
pH	: 6 - 8 at 25 °C
	: Decomposes without melting.
	: Not applicable
Bulk density	: 650 - 850 kg/m ³
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: Medium: Alcohol insoluble, dispersible
Evaporation rate	: Not applicable

9.2 Other information

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 : Dust can form an explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition : Build-up of dangerous/toxic fumes possible in case of fire/high temperature.

Thermal decomposition : No data available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity
Xanthan Gum : LD50 Oral: 45.000 mg/kg
Species: Rat

LD50 Oral: 20.000 mg/kg
Species: Mouse

Acute inhalation toxicity
Xanthan Gum : 21 mg/l
Exposure time: 1 h
Species: Rat
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity
Xanthan Gum : No skin irritation

Skin corrosion/irritation

Skin irritation
Xanthan Gum : Species: Rat
Result: No skin irritation
Exposure time: 360 h
No skin irritation

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

Serious eye damage/eye irritation

Eye irritation
Xanthan Gum : Species: Rat
Result: No eye irritation
Exposure time: 120 h
No eye irritation

Respiratory or skin sensitisation

Sensitisation
Xanthan Gum : Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
No known sensitising effect.

Germ cell mutagenicity

Assessment
Xanthan Gum : Animal testing did not show any mutagenic effects.

Carcinogenicity

Assessment
Xanthan Gum : Not classifiable as a human carcinogen., Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

Reproductive toxicity

Xanthan Gum : Species: Rat
Dose: 0.5 g/kg/d

Target Organ Systemic Toxicant - Repeated exposure

Xanthan Gum : Species: Rat
Application Route: Oral
Exposure time: 24 h
No adverse effect has been observed in chronic toxicity tests.

Aspiration hazard

Aspiration toxicity
Xanthan Gum : No aspiration toxicity classification

Repeated dose toxicity
Xanthan Gum : No adverse effect has been observed in chronic toxicity tests.

12. Ecological information

12.1 Toxicity

Toxicity to fish : No adverse effect has been observed in acute toxicity tests.

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

12.2 Persistence and degradability

Biodegradability : 78 %
Xanthan Gum Exposure time: 28 d
Method: OECD Test Guideline 301F
Readily biodegradable

Biochemical Oxygen Demand (BOD)
Xanthan Gum : 200 mg/g

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Distribution among environmental compartments
Xanthan Gum : No data available

12.5 Results of PBT and vPvB assessment

Xanthan Gum : This substance is not considered to be persistent, bioaccumu-
lating and toxic (PBT).

12.6 Other adverse effects

Additional ecological information
Xanthan Gum : This product has no known ecotoxicological effects.

13. Disposal considerations

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incinera-
tion.
Can be landfilled or incinerated, when in compliance with local
regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-
dling site for recycling or disposal.
Dispose of as unused product.

14. Transport information

ADR
Not dangerous goods
IATA
Not dangerous goods
IMDG
Not dangerous goods
RID
Not dangerous goods

15. Regulatory information

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

Major Accident Hazard Leg-islation : 96/82/EC Update: 2003 Directive 96/82/EC does not apply

15.2 Chemical Safety Assessment

16. Other information

This information related 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the sustainability of such information for his own particular use.

Animal testing statement

The following product supplied by Golden Bough Botanicals Inc.

Xanthan Gum

is manufactured by fermentation of carbohydrates containing raw materials like glucose syrup and sugar. The product undergoes several purification steps and is finally obtained in its highly pure form.

Golden Bough Botanicals Inc. does not carry out and has not carried out animal testing with xanthan gum. However, most food, cosmetic and pharmaceutical substances have been tested in the past in order to prove their safe status.

For Xanthan Gum in the past, the following animal testing was carried out by different organizations in order to determine the risk and the appropriate labeling of the substance. However, according to our knowledge no animal tests for cosmetic household product purposes were carried out.

Study on acute toxicity on rat, 1969

Study on chronic toxicity on rat, 1973

Studies on the determination of skin and eye irritation on rabbit, 1969 and 1982

According to our knowledge, no animal tests for Xanthan Gum have been carried out since then.

April 12, 2013

Golden Bough Botanicals Inc.