

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 11/2/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Substance
Name : Xanthan gum
Trade name : RHODOPOL 23
CAS-No. : 11138-66-2
Product code : GUM0010

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

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1.4. Emergency telephone number

Emergency number : CHEMTREC: +1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Combustible Dust

May form combustible dust concentrations in air

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : May form combustible dust concentrations in air

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : The product can accumulate static charges which may cause ignition. Repeated contact can cause allergic reactions in very sensitive people. Contact with eyes and skin may cause slight transient irritation. Inhalation of dust in high concentration may cause irritation to the respiratory system.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS US classification
Xanthan gum (Main constituent)	CAS-No.: 11138-66-2	80 – 90	Comb. Dust

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Persons providing assistance must avoid exposing themselves. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove victim to fresh air. Allow the victim to rest. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Explosion hazard	: Avoid raising powdered material due to explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment. Safety glasses. Protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures	: Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust. Keep away from combustible material.

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak, if possible without risk. Sweep up or vacuum up the product. Keep recovered product for subsequent disposal.
Methods for cleaning up	: Clean contaminated surfaces with an excess of water.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapor. Contaminated work clothing should not be allowed out of the workplace. Avoid unnecessary exposure. Remove all sources of ignition. Avoid the accumulation of electrostatic charges. Provide local exhaust or general room ventilation to reduce concentrations of mists and / or vapors. Do not breathe gas, fumes, vapor or spray. Do not eat, do not drink and do not smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Wash clothing before reuse. Do not use compressed air to stir or transfer the contents of containers (tanks) for storage / transport casks containing this product. Eye wash fountains and emergency showers should be installed close to any place where there is risk of exposure. Staff should be warned of the dangers of the product. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Maintain good hand hygiene. Avoid all contact with skin and eyes. Remove contaminated clothing. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Does not require any specific or particular technical measures. Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Keep in the original container. Keep only in original container. Store in dry, cool, well-ventilated area. Keep away from sources of ignition - No smoking. Keep away from ignition sources. Direct sunlight. Combustible dust. Make sure that the storage conditions are appropriate for this risk and for the applicable regulations covering the prevention of explosive atmospheres.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Xanthan gum (11138-66-2)

No additional information available

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8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure that there is a suitable ventilation system. If dust is generated during use, local air extraction is recommended. Avoid inhalation by providing general exhaust ventilation and, if necessary, local exhaust to keep dust away from workers. Avoid high concentrations of dust in the air and accumulation of dust on the equipment.
Environmental exposure controls	: Avoid release to the environment. Do not pour into water and sewers. Avoid the penetration of the ground. In the event of pollution, inform the competent authorities.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

In case of repeated or prolonged contact wear gloves

Eye protection:

Safety glasses. Eye wash must be in the immediate work area

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: granules.
Color	: White (Milk-like).
Odor	: No data available
Odor threshold	: No data available
pH	: 6 – 8 (1% (m/v)) Aqueous solution
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: Not applicable
Relative density	: No data available
Density	: 350 – 450 kg/m ³
Solubility	: Depending on the concentration, a colloidal solution, thick paste or gel is formed.
Partition coefficient n-octanol/water (Log Pow)	: No data available

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Auto-ignition temperature	: > 200 °C relative Self-ignition temperature for solids - Methods : EU Test Guideline A16
Decomposition temperature	: > 145 °C
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: Not applicable Lower explosive limit (LEL): Not applicable Upper explosive limit (UEL): Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Dust deflagration index	: 110 bar·m/s
Dust explosion category	: St 1 - Weak explosion

9.2. Other information

Minimum ignition energy	: > 1 J Dust
Dust deflagration index	: 110 bar·m/s

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Dangerous polymerization will not occur. Dust may form explosive mixture in air.

10.4. Conditions to avoid

Avoid creating or spreading dust. Take precautionary measures against static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Xanthan gum (11138-66-2)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	21 mg/l 1h
ATE US (vapors)	21 mg/l/4h
ATE US (dust, mist)	21 mg/l/4h

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Skin corrosion/irritation	: Not classified pH: 6 – 8 (1% (m/v)) Aqueous solution
Serious eye damage/irritation	: Not classified pH: 6 – 8 (1% (m/v)) Aqueous solution
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Xanthan gum (11138-66-2)

NOAEL (animal/male, F0/P)	500 mg/kg
NOAEL (animal/female, F0/P)	500 mg/kg
NOAEL (animal/male, F1)	500 mg/kg
NOAEL (animal/female, F1)	500 mg/kg

STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Xanthan gum (11138-66-2)

LC50 - Fish [1]	420 mg/l 96h : Oncorhynchus mykiss (rainbow trout)
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12.2. Persistence and degradability

Xanthan gum (11138-66-2)

Biodegradation	88 % 28 days - OECD Test Guideline 301 E
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Completely empty the packaging prior to decontamination. Dispose in a safe manner in accordance with local/national regulations.

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SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

Xanthan gum (11138-66-2)

Not subject to reporting requirements of the United States SARA Section 313

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Xanthan gum	11138-66-2	Present	Active	XU

15.2. International regulations

CANADA

Xanthan gum (11138-66-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Xanthan gum (11138-66-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Xanthan gum (11138-66-2)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Data sources : ECHA - European Chemicals Agency. Supplier Safety Data Sheet.

Abbreviations and acronyms	
LC50	Median lethal concentration
DOT	Department of Transport
ATE	Acute Toxicity Estimate
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.