Section 1. Product and Company Identification

Product Name Xanthan Gum
CAS Number 11138-66-2

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 **(914) 654-6899**
parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Classification: Substances is not classified as a hazardous substance or mixture
OSHA Hazards: No know OSHA hazards. Not a dangerous substance according to GHS

GHS Label Elements
Pictograms: N/A
Signal word: N/A

Hazard and precautionary statements
None

Primary Route of Entry: Inhalation, eye, and skin contact
Symptoms and effects of acute overexposure: Inhalation of the dust and eye contact may cause irritation. May be irritating to the skin of a sensitive person.
Chronic Overexposure: Same as above.
Medical Conditions Generally Aggravated By This Material: None

HMIS (USA)
Health Hazard: 0
Fire Hazard: 0
Reactivity: 0

National Fire Protection Association (USA)
Health: 0
Flammability: 0
Reactivity: 0

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 3. Composition / Information on Ingredients

Common Name Xanthan Gum
CAS Number 11138-66-2

COMPONENT	CAS NUMBER	CONCENTRATION
Xanthan Gum	11138-66-2	≥ 99.0%
Glyoxal	107-22-2	≤ 1%

Section 4. First Aid Measures

Eye Contact: Flush eyes with large volume of water.
Skin Contact: Wash with warm water and mild soap.
Inhalation: Remove from exposure.
Note: If irritation persists, consult physician.

Section 5. Firefighting Measures

Flash Point: Not determined
Extinguishing Media: Water, Carbon Dioxide, Foam.
Special Firefighting Procedures: Firefighters should wear full protective clothing, including self-contained breathing equipment.
Unusual Fire and Explosion Hazards: A potential dust explosion hazard exists if the dust concentration in the air is high.

Section 6. Accidental Release Measures

Steps to Be Taken If Material Is Released or Spilled: Dry Powder - Sweep up or vacuum promptly and put into a disposable container. Wet material becomes slippery. Wash with water solution or apply absorbent material, sweep up and wash area

Section 7. Handling and Storage

Precautions For Handling And Storage: Store in dry place. Keep container closed to avoid moisture pick-up. Do not store at temperatures above 30°C/86°F. Practice reasonable care and cleanliness.

Section 8. Exposure Controls / Personal Protection

Engineering: Use local exhaust ventilation to maintain minimal exposure to nuisance dust.
Personal Protective Equipment: Use approved respirator if dust becomes a nuisance.
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Personal Protective Equipment: Use approved respirator if dust becomes a nuisance

Section 9. Physical and Chemical Properties

Appearance: Off-white to beige, powder
Odor: No distinguishable odor.
Odor Threshold: No applicable information is available
pH: 4 – 7
Melting point/Freezing Point: No applicable information is available
Initial Boiling Point and Boiling Point Range: No applicable information is available
Flash Point: No applicable information is available
Evaporation Rate: No applicable information is available
Flammability: No applicable information is available
Upper/Lower Flammability or Explosive Limits: No applicable information is available
Vapor Pressure: No applicable information is available
Relative Density: No applicable information is available
Solubility: Cold
Partition Coefficient: No applicable information is available
Auto-Ignition Temperature: > 200°C
Decomposition Temperature: No applicable information is available
Viscosity: 1200 - 1800 cPs
Reactivity: Stable
Chemical Stability: Stable
Possibility of Hazardous Reactions: Will not occur.
Conditions to Avoid: Water, product will become slippery
Incompatible Materials: Strong oxidizers.
Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide.

Section 10. Stability and Reactivity

Stability: Stable
Materials To Avoid: Strong oxidizers.
Conditions to Avoid: Water, product will become slippery
Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Acute toxicity
Acute oral toxicity – Xanthan Gum
LD50 Oral: 45.000 mg/kg species: rat
LD50 Oral: 20.000 mg/kg Species: mouse

Glyoxal
LD50 Oral: 2.000 - 5.000 mg/kg Species: rat
LD50 Oral: 2.960 mg/kg Species: rat

LD50 Oral: 1.280 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.

Glyoxal
LD50: 2,4 l mg/l
Exposure time: 4 h
Species: rat
Acute dermal toxicity – xanthan gum: no skin irritation

Glyoxal
LD50 Dermal: 12, 70 mg/kg
Species: rabbit
LD50 Dermal: 6.600 mg/kg
Species: guinea pig

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

Glyoxal
Species: rabbit
Result: mild skin irritation
Classification: irritating to skin.
Serious eye damage/eye irritation: eye irritation

Xanthan gum
Species: rat
Result: no eye irritation
Exposure time: 120 h no eye irritation

Glyoxal
Species: rabbit
Result: mild eye irritation

Respiratory or skin sensitization
Sensitization xanthan gum
Species: guinea pig
Result: did not cause sensitization on
Laboratory animals: no known sensitizing effect.

Glyoxal
Classification: may cause sensitization by skin contact.

Germ cell mutagenicity remarks
Xanthan gum: animal testing did not show any mutagenic effects.

Carcinogenicity
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
Xanthan gum
Species: rat
Application route: oral
Exposure time: 24 h
No adverse effect has been observed in chronic toxicity tests.

Glyoxal
Species: rat
Application route: oral
Exposure time: 28 d NOAEL: 40 mg/kg

Aspiration hazard
Aspiration toxicity xanthan gum: no aspiration toxicity classification

Acute effects
Glyoxal: causes skin irritation, causes serious eye irritation, harmful if inhaled.
Sensitization
Glyoxal: may cause an allergic skin reaction.
Repeated dose toxicity xanthan gum: no adverse effect has been observed in chronic toxicity tests.
Glyoxal: repeated or prolonged exposure may cause irritation of eyes and skin, chronic exposure damages the brain and the cen-tral nervous system. Further information glyoxal possible risk of irreversible effects.

Section 12. Ecological Information

Toxicity
Toxicity to fish Xanthan Gum: 420 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Glyoxal
LC50: 460 - 680 mg/l
Exposure time: 96 h
Species: Leuciscus idus (Golden orfe)
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates: No data is available on the product itself. Toxicity to daphnia and other aquatic invertebrates.
Glyoxal
EC50: 404 mg/l
Exposure time: 48 h
Species: Daphnia

Toxicity to algae: no data available
Toxicity to algae – glyoxal
Ecso: > 100 mg/l
Exposure time: 72 h
Species: pseudokirchneriella subcapit a ta (green algae) method: oecd test guideline 201

Toxicity to bacteria: no data available
Toxicity to bacteria – glyoxal
Ecso: 102 mg/l
Exposure time: 16 h
Species: bacteria

Persistence and degradability:
Xanthan gum: 93 %
Method: oecd test guideline 302 readily biodegradable.
Glyoxal: 90 - 100 % readily biodegradable.

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

Mobility in soil: Distribution among environmental compartments

Xanthan Gum: no data available
Results of PBT and vPvB assessment
Xanthan Gum: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Other adverse effects: Biochemical Oxygen Demand (BOD)
Xanthan Gum: 200 mg/g
Glyoxal: 175 mg/g

Chemical Oxygen Demand (COD)
Glyoxal: 350 mg/g

Additional ecological information Xanthan Gum: The product does not need to be labelled in accordance with EC directives or respective national laws. This product has no known eco-toxicological effects.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Land Transport: Goods not dangerous in these regulations
Inland Navigation: Transport goods not dangerous in these regulations
Sea Shipping Transport: Goods not dangerous in these regulations
Air Transport: Goods not dangerous in these regulations

Section 15. Regulatory Information

OSHA Hazards: No known OSHA hazards

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right to Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components
Xanthan Gum (CAS-No. 11138-66-2)

Glyoxal (CAS-No. 107-22-2)

New Jersey Right to Know Components

Xanthan Gum (CAS-No. 11138-66-2)
Glyoxal (CAS-No. 107-22-2)

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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