



HMIS <sup>®</sup>	
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## MATERIAL SAFETY DATA SHEET

### Xanthan Gum - USP

#### Section 1: Chemical Product and Company Identification

<b>Product Name:</b>	XANTHAN GUM - USP	<b>Contact Information:</b>	
<b>Catalog Codes:</b>	XANTHAN-GUM-1LB XANTHAN GUM-6OZ- POWDER	<b>ESSENTIAL DEPOT, INC.</b> 4210 Lafayette Av Sebring, FL 33875 Telephone: <b>(863) 658-4230</b> <b>(866) 840-2495</b> (Toll Free)	
<b>Synonyms:</b>	None known.	Internet: <a href="http://EssentialDepot.com">EssentialDepot.com</a>	
<b>Chemical Family:</b>	Carbohydrates.	<b>CHEMTREC</b> (24 Hr Emergency) Telephone: <b>(800) 424-9300</b> <b>(703) 527-3887</b> (International)	
<b>Chemical Name:</b>	Xanthan Gum.	Non-Emergency Assistance Telephone: <b>(863) 658-4230</b> <b>(866) 840-2495</b> (Toll Free)	
<b>Chemical Formula:</b>	Not available.		
<b>Product Use:</b>	Chemical Intermediate, Thickner, Food Additive		

#### Section 2: Composition and Information on Ingredients

(Not Intended As Specifications)

Composition:

Name	CAS#	EINECS / EC #	% Concentration
Xanthan Gum	11138-66-2	234-394-2	95 - 100

#### Section 3: Hazards Identification

##### Overview:

The hazard risk is low for the usual commercial and industrial handling. Irritation to the skin, eyes, and respiratory tract may be caused by dust exposure. Decomposition at high temperature causes toxic gases. Intense heat may cause the crystals to release water vapors causing pressure in sealed container which may then rupture. Dust in the air may form an explosive mixture.

##### Skin Contact:

Extended or continuous (such as repeated usage) exposure may cause skin irritation. Skin irritation may also be caused by confined exposure (such as under jewelry - watches or rings - or under the finger nails). Drying of the skin may occur if exposed to excess and/or continuous amounts due to the product's absorption of moisture and oils.

### Section 3: Hazards Identification

**Skin Absorption:**

Not likely to be absorbed via the skin.

**Eyes:**

Drying of the mucous membranes of the eye(s) may occur if excessive contact of the product occurs due to the product's absorption of moisture and oils. The abrasive action of the product could cause irritation.

**Inhalation:**

Contact via inhalation could be mildly irritating to the nose, throat, and respiratory tract or cause sneezing and coughing. Drying of the mucous membranes of the nose and throat may occur by contact via inhalation due to the product's absorption of moisture and oils. However, long-term exposure to high concentration may cause a larger mucous flow from the airways of the nose and respiratory system. These symptoms usually cease when the exposure ceases.

Whether exposure to the dust plays a role in the development of chronic bronchitis continues to be controversial. The role of other factors such as smoking and general air pollution are more important but it is believed that exposure to the dust may contribute.

**Ingestion:**

Mild gastrointestinal discomfort may be experienced if this product is ingested.

### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, forcibly keeping eyelids open. Cold water should be used. Seek immediate medical attention.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Next, while removing contaminated clothing and shoes, wash affected area completely with soap and water. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if skin irritation, redness, or a burning sensation develops or persists.

**Inhalation:**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen and continue to remove to fresh air. Loosen tight clothing including belts, waistbands, collars, jewelry, scarves, etc... If irritation, headaches, flu-like symptoms develop, seek immediate medical attention. If **not breathing**, give artificial respiration. If **not breathing and no pulse**, give cardiopulmonary resuscitation (CPR). Seek immediate medical attention.

**Ingestion:**

DO NOT induce vomiting unless instructed to do by medical personnel. Seek immediate medical attention. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband. If alert, not convulsing, and not vomiting; rinse mouth and administer ½ glass - 1 glass of water to dilute material. If spontaneous vomiting occurs, have vomiting person lean forward with head down so that the vomiting person does not breathe in or ingest the vomitus; then rinse mouth and administer more water.

**Medical Treatment Special Note:**

Treat the symptoms. Exposure to this product may aggravate diseases of the eyes, skin, and respiratory tract.

## Section 5: Fire and Explosion Data

**Flammability Class:**

Not regulated by WHMIS.

**Auto-Ignition Temperature:**

Not applicable.

**Flash Points:**

Not applicable.

**Burn Rate:**

Not available.

**Explosive Power:**

Not available.

**Flammable Limits:**

Open flame or extremely high heat: will burn and expire with the burn and disintegrate.  
Capable of forming flammable dust clouds in the air. To reduce dust clouds and potential explosion, use in properly ventilated area and avoid accumulation of the dust.  
Not expected to be sensitive to mechanical impact.  
Is expected to be sensitive to static discharge.

**Products of Combustion:**

Thermal decomposition products are oxides of carbon and irritating gases.

**Fire Hazards in Presence of Various Substances:**

Isolate materials that are not involved.

**Explosion Hazards in Presence of Various Substances:**

Isolate materials that are not involved.

**Extinguishing Media and Instructions:**

Use foam, DRY chemical, carbon dioxide, or water spray.  
Do not use a high volume water jet.  
Fire fighters should wear self-contained positive pressure breathing apparatus and full turnout gear.  
Thermal decomposition gives toxic gases.

**Special Remarks on Fire Hazards:**

When heated to decomposition toxic gases result.  
Spilled material may cause surfaces to be slippery.

**Special Remarks on Explosion Hazards:**

None.

## Section 6: Accidental Release Measures

**Informational Usage:**

This information is for the immediate and emergency response to leaks, spill, or releases of this product in order to minimize or prevent harm to persons, property, or the environment.

## Section 6: Accidental Release Measures

### Clean Up and Containment Procedures:

Contact Vendor at the top of Page 1 of this MSDS. Wear protective clothing, gloves, and proper breathing apparatus. Avoid accumulation to minimize explosive dust clouds. Ventilate area to prevent inhalation and reduce possibility of dust clouds. Avoid dry sweeping and avoid using compressed air, vacuuming is preferred. Collect in container for proper disposal (depending upon use as well as extent and kind of contamination, product may be used to usual purpose). Do not flush with water as surface(s) will become slippery.

If package is damaged or leaking, place damaged or leaking package into an over-pack container immediately to minimize contamination or product loss.

There may be specific reporting requirements associated with your region for spills, leaks, or releases of this product. Notify the appropriate authority if spill, leak, or release could adversely affect the environment or is a reportable in your region.

## Section 7: Handling and Storage

### Handling:

Keep away from open flames, extreme heat, and sparks.  
Use in properly ventilated area.  
Avoid accumulation to prevent flammable dust clouds in the air.  
Use "spark resistant" tools.  
Clean up immediately to avoid a slipping hazard.  
Do not inhale or ingest.  
Do not breathe gases from burning as those gases are toxic.  
Wear suitable protective clothing.

### Storage:

Keep away from open flames, extreme heat, and sparks; store below 25°C (77°F).  
Use well ventilated area.  
Avoid moisture contamination.  
Keep containers sealed to reduce explosive dust clouds.  
Protect from sunlight.  
Lumping or caking may result after prolonged storage.  
Suitable storage is multi-layer polyethylene bags/sacks.

## Section 8: Exposure Controls / Personal Protection

### Exposure Controls:

Ventilate area. General exhaust (local is preferred) is acceptable if it also supplies air to replace the air being removed by the general exhaust.

### Personal Protection:

Take all precautions to avoid contact.  
Locate closest water source and closest eyewash station.  
Contact lenses should not be worn when working with this material.  
Safety glasses/goggles should be worn, preferably with side shields.  
Use gloves and protective clothing made from cotton, canvas, rubber, or plastic and should be impervious under the conditions of use.  
Dust mask for concentrations of dust up to 100/mg/m<sup>3</sup> particulate or an air-supplied respirator if concentrations are greater.

## Section 8: Exposure Controls / Personal Protection

### Exposure Limits:

ACGIH and OSHA have not established specific exposure limits but each has established limits for "particulates not otherwise regulated" (hereinafter referred to as PNOR) and "particulates not otherwise classified" (hereinafter referred to as PNOC), respectively; the least strict dust exposure limits.

ACGIH TLV	OSHA PEL
10 mg/m <sup>3</sup> - inhalable particulate	50 mppcf* or 15 mg/m <sup>3</sup> - total dust
3 mg/m <sup>3</sup> respirable particulate	15 mppcf* or 5 mg/m <sup>3</sup> - respirable fraction

\*mppcf = million particles per cubic foot

## Section 9: Physical and Chemical Properties

### Physical state and appearance:

Solid.  
Light beige to white, powder.

### Odor:

Low odor.

### Molecular Weight:

Approximately 1,000,000.

### pH:

6.0 - 8.0

### Boiling Point:

Not available.

### Melting Point:

Not available.

### Freezing Point:

Not available.

### Critical Temperature:

Not available.

### Vapor Pressure:

Not applicable.

### Vapor Density:

Not applicable.

### Relative Density:

1.56.

### Bulk Density:

2,200 - 3,200 kg/m<sup>3</sup>.

### Viscosity:

1200 - 1800 cPs.

## Section 9: Physical and Chemical Properties

**VOC Content:**

Not applicable.

**Volatility:**

14% by volume.

**Odor Threshold:**

Not available.

**Water/Oil Dist. Coeff.:**

Not available.

**Evaporation Rate:**

Not applicable.

**Solubility:**

Soluble water.

## Section 10: Stability and Reactivity Data

**Stability:**

The product is stable under normal conditions.

**Under Fire Conditions:**

Not flammable unless exposed to open flame or extreme heat, products evolved may have toxic gases.

**Incompatibility with various substances:**

Strong oxidizers.

Lewis or mineral acids.

Materials reactive with hydroxyl bearing compounds.

**Conditions to Avoid:**

Keep away from open flames, extreme heat, and sparks; store below 25°C (77°F).

Use well ventilated area.

Avoid moisture contamination.

Keep containers sealed to reduce explosive dust clouds.

Protect from sunlight.

Lumping or caking may result after prolonged storage.

Suitable storage is multi-layer polyethylene bags/sacks.

Clean up immediately to avoid slipping hazard.

Reduce dust clouds in the air.

**Polymerization:**

Polymerizations will not occur.

## Section 11: Toxicological Information

No meaningful toxicological test data could be found.

No adverse reproductive, mutagenic, teratogenic effects were anticipated.

The ingredients are not classified as carcinogenic by OSHA, ACGIH, IARC, or NTP.

No known data on skin or respiratory sensitization.

## Section 12: Ecological Information

### Ecotoxicity:

Not available.  
May be harmful to aquatic life.

### Environmental Fate:

Not available.  
This product is biodegradable.  
Can be dangerous if allowed to enter drinking water intakes.  
Do not contaminate domestic or irrigation water supplies.

## Section 13: Disposal Considerations

### Deactivating Chemicals:

None required.

### Waste Disposal:

Comply with federal, state, and local regulations.  
It is the user's responsibility to determine whether RCRA hazardous waste criteria is met for the product at the time of disposal. This is because product uses, transformations, modifications, mixtures, processes, etc... could render the product hazardous under RCRA criteria.

### Disposal of Packaging:

Empty containers contain residue.  
Dispose at an approved landfill.

## Section 14: Transport Information

### DOT Classification:

Not a DOT controlled material (United States).

### Special Provisions for Transport:

Not applicable.  
Not hazardous under DOT, IMDG, OCAO/IATA, or TDG.

## Section 15: Other Regulatory Information

### Federal and State Regulations:

This product is included in the EPA's TSCA Inventory in 8(b).  
This product is not regulated by OSHA.  
This product is regulated by the US FDA. It is incumbent upon the user of this product to ensure any intended food application is consistent with US FDA guidelines. Food Grade designation in no way implies that the product is safe for human consumption.  
Under California's Prop. 65, there are no detectable components of this product that are substances, or belong to a class of substances, known to the State of California to cause cancer and/or reproductive toxicity.  
Included in the DSCL (EEC) under R36/38 for irritating to eyes and skin.

## Section 15: Other Regulatory Information

### Other Regulations:

Not regulated by WHMIS Classification.

Listed included in the Canadian DSL under the CEPA but not under the CEPA NPRI.

This product is regulated by the Health and Welfare Canada in the Food and Drug Act and the Food and Drug Regulations. It is incumbent upon the user of this product to ensure any intended food application is consistent with Health and Welfare Canada guidelines. Food Grade designation in no way implies that the product is safe for human consumption.

This product is included in the EINECS.

### Other Classifications:

None necessary.

### HMIS (U.S.A.):

Health Hazard: 2.

Fire Hazard: 1.

Reactivity: 0.

Personal Protection: E.

### Nation Fire Protection Association (U.S.A.):

Health: 2.

Flammability: 1.

Reactivity: 0.

Specific Hazard:

### Protective Equipment:

Gloves.

Protective Clothing.

Mask/Respirator. (Be sure to use an approved/certified respirator or equivalent.)

Protective Eyewear.

Ventilator.

## Section 16: Other Information

### References:

MSDS of Supplier and of other suppliers.

RTECS - Registry of Toxic Effects of Chemical Substances, Canadian Center for Occupational Health and Safety RTECS database.

CHEMINFO, through "CCINFODisc", Canadian Center for Occupational Health and Safety, Hamilton, Ontario, Canada.

The British Columbia Drug and Poison Information Center, Poison Managements Manual, Canadian Pharmaceutical Association, Ottawa, 1981.

Guide To Occupational Exposure Values, 2005, American Conference of Governmental Industrial Hygienists, Cincinnati, OH, 2005.

Clayton, G.D. and Clayton, F.E., Eds., Patty's Industrial Hygiene and Toxicology, 3<sup>rd</sup> ed, Vol. IIA,B,C, John Wiley and Sons, New York, NY., 1981.

*Registry of Toxic Effects of Chemical Substances* maintained by Symyx Technologies.



## Section 16: Other Information

### Special Information:

This product is certified Kosher.

This product is certified Halal.

The following allergens are not present:

- cereals containing glutes
- crustaceans
- eggs
- fish
- peanuts
- soybeans (wheat, rye, barley, oats, spelt, kamut, or their hybridised strains)
- milk (including lactose)
- nuts (almond, hazelnut, walnut, cashew, pecan, brazil, pastachio, macadamia, and queensland)
- celery
- mustard
- sesame seeds
- sulphur dioxide and sulphites (>10 mg/kg)
- lupin
- molluscs

### Other Special Considerations:

The information above is believed to be accurate and represents the best information currently available to Essential Depot, Inc. However, Essential Depot, Inc. makes no warranty of merchantability or any other warranty, express or implied, (including for any particular purpose) with respect to such information, and assumes no liability resulting from the use of this product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This information is provided independently of any product sale. This data is part of Essential Depot's safety program and is intended to communicate hazard information about the product as well as be a guide for implementation of your own safety program. This data only applies to the product as sold and not to the product in use or the product in combination with anything else. In no event shall Essential Depot, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Essential Depot, Inc. has been advised of the possibility of such damages.

### Created:

08.29.2011

### Last Revision:

Not Applicable

### Section(s) Revised:

Not applicable.