



#### 4. FIRST AID MEASURES

##### Description of first aid measures

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Wash off with warm water and soap.

**Inhalation** Move to fresh air.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

##### Most important symptoms and affects, both acute and delayed

**Eyes** Dust may cause mechanical irritation to eyes resulting in redness or watering.

**Skin** Product dust may cause mild, mechanical irritation.

**Inhalation** Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated".

**Ingestion** Not for human consumption. Ingestion may cause irritation to mucous membranes. Product may expand upon contact with moisture.

**Main Symptoms** Itching. Shortness of breath.

##### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Flammable Properties

Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors and ledges. As with most organic solids, combustion is possible at elevated temperatures or by contact with an ignition source.

##### Extinguishing media

**Suitable Extinguishing Media** Water. Carbon dioxide (CO<sub>2</sub>). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

##### Special hazards arising from the substance or mixture

**Hazardous Combustion Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Specific Hazards Arising from the Chemical** None known.

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** Yes. (as dust).

**Further information** Dust explosibility class = 1 [Kst (bar-m/sec) = 92]. Weak to moderately explosible.

##### Advice for fire-fighters

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

##### NFPA

**Health** 0

**Flammability** 1

**Stability and Reactivity** 0

**Physical hazard** None known



#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal Precautions

Avoid dust formation. Use personal protective equipment. For personal protection see section 8.

##### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

##### Methods for Clean-up

Clean up promptly by sweeping or vacuum.

**7. HANDLING AND STORAGE**

**Handling**

Ensure adequate ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities".

**Storage**

Keep in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits**

This product is not known to contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. As an airborne dust, exposure limits pertaining to "particulates not otherwise regulated" have been provided below.

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH
Particulates not otherwise regulated	TWA: 10 mg/m <sup>3</sup> inhalable particles, recommended TWA: 3 mg/m <sup>3</sup> respirable particles, recommended	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	not listed	not listed

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**Personal Protective Equipment**

**Eye/face Protection.**

If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended. If airborne dust concentrations are excessive, wear goggles.

**Skin and Body Protection**

Protective clothing and gloves may be worn to reduce the potential of mechanical irritation.

**Respiratory Protection**

If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection.



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Cream to Light yellow  
**Physical State** Solid / Powder or Granules  
**Odor** Characteristic  
**Odor Threshold** No information available  
**pH** Neutral

**Flash Point** Not applicable  
**Autoignition Temperature** 390 °C / 734 °F  
**Boiling point** Not applicable  
**Melting/Freezing Point** No information available  
**Decomposition temperature** No information available  
**Oxidizing Properties** No information available

**Water Solubility** Soluble  
**Evaporation Rate** Not applicable  
**Vapor Pressure** Not applicable  
**Vapor Density** Not applicable  
**Partition Coefficient (n-octanol/water)** No information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.

**Possibility of Hazardous Reactions** Hazardous polymerization does not occur.

**Conditions to Avoid** Avoid dust formation. Heat, flames and sparks.

**Incompatible Materials** No materials to be especially mentioned.

**Hazardous Decomposition Products** Thermal decomposition may lead to release of, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, no evidence of acute toxicity.
<b>Skin corrosion/irritation</b>	Based on available data, not, or only slightly irritating.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

### Potential health effects

<b>Eyes</b>	Dust may cause mechanical irritation to eyes resulting in redness or watering.
<b>Skin</b>	Product dust may cause mild, mechanical irritation.
<b>Inhalation</b>	Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated".
<b>Ingestion</b>	Not for human consumption. Ingestion may cause irritation to mucous membranes. Product may expand upon contact with moisture.
<b>Main Symptoms</b>	Itching. Shortness of breath.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

<b>Persistence/Degradability</b>	Expected to be biodegradable.
<b>Mobility</b>	Soluble in water.

## 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

<b>Waste Disposal Methods</b>	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
<b>Contaminated Packaging</b>	Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

<b>14. TRANSPORT INFORMATION</b>
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**Domestic transport regulations (USA)**

DOT Not regulated

**Domestic transport regulations (Canada)**

TDG Not regulated

**Domestic transport regulations (Mexico)**

MEX Not regulated

**International transport regulations**

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZIoC
Xanthan gum	Yes	Yes	No	Yes 234-394-2	No	Yes	Yes (8)-535	Yes	Yes	Yes KE-35422	Yes

**USA****Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

**CERCLA/SARA 103-302**

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

**SARA 311/312 Hazardous Categorization**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)**

This product is not known to contain any HAPS.

**State Regulations****California Proposition 65**

This product is not known to contain chemicals listed under Proposition 65.

**State Right-to-Know**

No known components subject to "Right-To-Know" legislation in the following States: Massachusetts. Minnesota. New Jersey. Pennsylvania. Rhode Island.

**Canada****WHMIS Product Classification**

Not a WHMIS controlled product.

**WHMIS Ingredient Disclosure List IDL**

No known component is listed on the WHMIS ingredients disclosure list.

**(NPRI) Canadian National Pollutant Release Inventory**

No known component is listed on NPRI.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.**

**Mexico****Mexico - Grade**

Slight risk, Grade 1

## 16. OTHER INFORMATION

**Prepared By:** ADM Bio-Products  
**Original Preparation Date:** 20-Sep-2011  
**Revision Date:** 14-Nov-2013  
**Revision Number:** 2  
**Reason for revision:** New SDS format. This version replaces all previous versions.

**Abbreviations and acronyms**

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values  
 AICS - Australian Inventory of Chemical Substances (Australia)  
 CAS - Chemical Abstract Service  
 CHINA - Chinese Inventory of Existing Chemical Substances (China)  
 DOT - U.S. Department of Transportation  
 DSL - Domestic Substance List (Canada)  
 EINECS - European Inventory of Existing Commercial Chemical Substances (EU)  
 ELINCS - European List of Notified Chemical Substances (EU)  
 ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA - International Air Transport Association Dangerous Goods Regulations  
 ICAO - International Civil Aviation Organisation  
 ICL - In Commerce List (Canada)  
 IMDG - International Maritime Dangerous Goods Code  
 IMO - International Maritime Organization  
 KECL - Korean Existing and Evaluated Chemical Substances (Korea)  
 MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported  
 NDSL - Non Domestic Substances List (Canada)  
 NFPA - National Fire Protection Association  
 NIOSH - National Institute of Occupational Safety and Health  
 NZIoC - New Zealand Inventory of Chemicals (New Zealand)  
 OSHA - Occupational Safety & Health Administration  
 OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits  
 PICCS - Inventory of Chemicals and Chemical Substances (Philippines)  
 STOT - Specific Target Organ Toxicity  
 TDG - Transportation of Dangerous Goods (Transport Canada)  
 TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)  
 TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)  
 WHMIS - Workplace Hazardous Materials Information System

**The information provided on this (M)SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.**

End of sheet