Date: May.26th, 2025

Material Safety Data Sheet

1. PRODUCT AND COMPANY DESCRIPTION

HEBEI JRAIN TECHNOLOGY CO.,LTD.
No. 66 XIANGTAI ROAD, YUHUA DISTRICT, SHIJIAZHUANG CITY, HEBEI PROVINCE,CHINA

Emergency Phone Numbers:
For emergencies involving a spill, leak, fire, and exposure or accident contact: chemtrec at 86-311-80680379 within china.

For Product Information:
86-311-80680379

Chemical Name or Synonym:
Xanthan gum

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number
XANTHAN GUM	11138-66-2

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance:
Cream colored, free-flowing powder

Odor:
Flour-like odor

Density
0.6-0.8g/ml

Warning Statements:
Caution! may cause skin, eye and respiratory tract irritation.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:
Slightly irritating. Dust may cause redness and irritation.

Acute Skin:
Skin absorption not likely. May cause slight transient irritation.

Acute Inhalation:
Dust may cause upper respiratory tract irritation.

Acute Ingestion:
Non-toxic.

Chronic Effects:
This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

Skin Exposure:

In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

Ingestion:

Ingestion of dry powder may result in the material swelling in the throat, possibly causing blockage of the throat and choking. If the victim is conscious and alert, give 1-2

glasses of water to drink to prevent esophageal obstruction. Do not give anything by month to an unconscious person. Seek medical attention. Do not leave victim unattended.

Medical conditions possibly aggravated by exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

Note to physician:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:
>93 C (200 F). Flammability Class: WILL BURN.

Method Used:
Closed Cup

Flammability Limits (vol/vol %):	Lower:	Upper:
	No Data	No Data

Extinguishing Media:

Recommended (small fires): carbon dioxide, dry chemical. Recommended (large fire): water, aqueous foam.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

Product will burn under fire conditions. Like all organic and most dry chemicals, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.

Hazardous Decomposition Materials (under Fire Conditions):

Oxides of carbon

Dust Explosivity Data:

Explosibility Index…….0.1 to 1 Type of Explosion is Rated MODERATE.

Ignition Sensitivity…..No Data
Explosion Severity……No Data

Explosion Severity…..No Data
Cloud Ignition Temp….590 C (1094 F)

Cloud Ignition Temp…..590 C (1094 F)
Min Cloud Ignition Energy…..>10 milliJoules

Min Cloud Ignition Energy…..>10 milliJoules
Layer Ignition Temp…..No Data

Layer Ignition Temp.……No Data
Max. Explosion Pressure….6.2 bars

Max. Explosion Pressure……6.2 bars
Max Rate of Pressure Rise…59 bars/second

Max. Rate of Pressure Rise.….59 bars/second
Min. Explosion Concentration. 0.03 oz/ft3 Min.

Explosion Concentration……. 0.03 oz/ft3

Min Ignition Energy of a Dust Cloud in Air…….> 999 mJ

Min Autoignition Temperature of Dust Clouds…… 400 C (752 F)

Hot-Surface Ignition Temperature of Dust Layers…… 300 C (572 F)

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:

CAUTION: Spilled material may become slippery when wet. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard. Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Containment of Spill:

Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:

Dry Material: Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). Wet Material: Absorb with an inert absorbent. Shovel up into an appropriate closed container (see Section 7: Handling and Storage).

Environmental and Regulatory Reporting:

Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:

Not Available

Handling：

Avoid breathing dust.

This product may present a dust explosion hazard. It is recommended that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents, an explosion suppression system or an oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be flowed through non-conductive ducts or pipes. Use only appropriately classed electrical equipment.

Storage:

Store in closed containers. Store in a dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines:

No exposure limits were found for this product or any of its ingredients.

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposure: wet processing methods to reduce dust generation.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and fumes.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

（1）Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
（2）Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
（3）Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Call the phone number in Section 1, Product Information, for its exact specifications.

Physical Appearance:

Cream colored, free flowing powder

Odor:

Flour-like odor

pH (1% solution):

5.5 to 8.5

Specific Gravity:

Not Available

Water Solubility:
Soluble

Melting Point Range:

Not Applicable

Boiling Point Range:

Not Applicable

Vapor Pressure:

Not Applicable

Vapor Density:

Not Applicable

10. STABILITY AND REACTIVITY

Chemical Stability:

This material is stable under normal handling and storage conditions as described in Section 7.

Conditions To Be Avoided:

Dusting Conditions
Extreme Heat
Open Flames
Sparks

Materials/Chemicals To Be Avoided:

Strong oxidizing agents

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type:
thermal
Oxides of carbon

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:
Not Applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

No test data found for product.

Acute Skin Irritation:

No test data found for product.

Acute Dermal Toxicity:

No test data found for product.

Acute Respiratory Irritation:

No test data found for product.

Acute Inhalation Toxicity:

No test data found for product.

Acute Oral Toxicity:

No test data found for product.

Chronic Toxicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

No additional test data found for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

No data found for product.

Chemical Fate Information:

No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Stabilize and solidify this material with compatible binders. Then place in a secure landfill.

Container Handling and Disposal:

Any containers or equipment used should be decontaminated immediately after use.

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

TDG Status:

Shipping Name: NON DANGEROUS

IMO Status:

Shipping Name: NOT REGULATED

IATA STATUS:

Shipping Name: NOT REGULATED

15.REGULATORY INFORMATION

Inventory Status

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	Y
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.
E = All ingredients are on the inventory or exempt from listing.
P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

Inventory Issues:
All functional components of this product are listed on the TSCA Inventory.

WHMIS Classification:
NOT CONTROLLED

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

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings—NFPA(R):

Health Hazard Rating—Slight
Flammability Rating—Slight
Instability Rating—Minimal

National Paint & Coating Hazardous Materials Identification System—HMIS(R):

Health Hazard Rating—Slight
Flammability Rating—Slight
Reactivity Rating—Minimal

Key Legend Information:

ACGIH – American Conference of Governmental Industrial
Hygienists OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on
Cancer ND – Not Determined

Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied, is made.

HEBEI JRAIN TECHNOLOGY CO.,LTD.