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THE BTTCO OVERSEAS

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Material Safety Data Sheet
Guar Gum Powder

Section 1-Product Identification & Company Information/s

Product Name : Guar Gum Powder
Synonyms : Guaran, Guar Flour, Guar Gum Powder
CAS No : 9000-30-0

Company Name & Address : The BTTCO Overseas
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall,
Navrangpura, Ahmedabad 380009, India

Telephone Number : +91-94265 96891
Contact Person : Dinaish Lunkad

Section 2- Composition/Information on Ingredients

Component	CAS No	Weight %
Guar gum	9000-30-0	<=100

Section 3- Hazards Identification

OSHA Hazardous Material:
OSHA Hazard Categories : 1. Carcinogen – NO 2. Corrosive – NO
3. Highly Toxic – NO 4. Irritant – Yes
5. Sensitizer – Yes 6. Toxic – NO
7. Target Organ Effect Lung and Cutaneous – Yes

Emergency overview : Concentrations of dust suspended in the air present a fire and explosion hazard. Inhalation of dust may cause respiratory irritation and possible lung injury with symptoms of shortness of breath and reduced lung function. Guar gum is very slippery when wet.

Acute Health Effects
Eye contact : Contact may cause irritation based on studies with laboratory animals.
Skin contact : Contact may cause dryness.
Inhalation : Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Symptoms include coughing, sore throat, nasal congestion, sneezing wheezing and shortness of breath. Guar gum may cause life-threatening allergic reaction in Susceptible individuals.

Ingestion : DO NOT INGEST. While this product is not toxic by ingestion, swallowing small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life-threatening medical conditions. Get medical attention immediately.

Chronic (long-term exposure) Health Effects:

Inhalation : Overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath, difficulty breathing and reduced pulmonary function. Repeated exposures may cause allergic sensitization.

Carcinogenicity : None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.

Medical Conditions Aggravated by Exposure : Persons with pre-existing skin and respiratory disorders may be at an increased risk from exposure.

Physical Hazards

Dust : It is well documented that a dust cloud will fuel an explosion in a confined area with sufficient oxygen and an ignition source. Surface (passive) and airborne (active) dust (fuel) is a potential hazard and the appropriate protective measures should be taken when handling guar outside of the bag in confined work spaces, dust collectors, dryers, mills, sifters, blender, pneumatic conveyance systems, storage tanks, etc. Utilize good housekeeping to remove surface dust from floors, walls, beams, around equipment, etc.

Slick Surfaces : It is possible that an employee will be exposed to guar powder or dust in combination with water on work platform, floor or stair, which will result in a slippery surface.

Section 4- First Aid Measures

Eye contact : Flush immediately with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists get medical attention.

Skin contact : First aid is not normally needed. Wash exposed skin with soap and water after use. If irritation or rash develops get medical attention. Use skin lotion if dryness occurs.

Inhalation : If symptoms of irritation or allergy develop, remove person from source of exposure to fresh air. If symptoms persist get medical attention.

Ingestion : Swallowing even small amounts may have serious, life-threatening effects. Get immediate medical attention.

Section 5- Fire Fighting Measures

Flashpoint : Not Applicable
Lower Explosion Limit : 0.040 oz/cf
Auto-Ignition Temperature : Not Determined
Upper Explosion Limit : Not determined

Fire and Explosion Hazards : Powder has the potential to form explosive mixtures with air. It is well documented that a dust cloud will fuel an explosion hazard. Surface (passive) and airborne (active) dust (fuel) area potential hazard and the appropriate protective measures should be taken when handling guar gum outside of the original packaging. Avoid creating dust. Keep away from heat, sparks and open flames. As with all dusty materials, use preventative measures including spark proof motors and ventilation to control dust. Utilize good housekeeping to remove surface dust from floors, walls, beams, around equipment, etc.

Fire Extinguishing Media : Use water fog, dry chemical, carbon dioxide or foam. Do not use streams of water as dust dispersed by water streams can explode.

Special Fire Fighting Procedures : Wear positive pressure, self-contained breathing apparatus and full protective clothing.

Combustion Products : Oxides of carbon and nitrogen.

Section 6- Accidental Release Measures

Wear appropriate protective clothing and equipment. Caution: Guar gum is very slippery when wet. Suspended dust may present a serious dust explosion hazard. Sweep up or vacuum, avoiding the creation of airborne dust. Keep spilled product away from flammable and combustible materials. Use vacuum equipment specifically designed for combustible dusts. Collect into a suitable container for disposal. Wash residual traces with hot water after sweep-up is complete. Test area for residual slippery conditions.

Section 7- Handling and Storage

Handling : Avoid generating and breathing dust. Avoid eye contact. Use with adequate local exhaust ventilation and dust collection to maintain the concentration of airborne dust below the exposure limits. If clothing becomes contaminated, remove and launder before re-use. Wash thoroughly after handling. Keep product away from oxidizers and all

sources of ignition including flames, electrical sparks, hot surfaces, pilot lights, etc.

Storage : Keep product dry. Store in a cool, dry area. Keep containers closed to avoid moisture absorption.

8. Exposure Controls/Personal Protection

Ingredient	Exposure Limits
Guar Gum	15 mg/m3 (Total Particulate) PEL-TWA 5 mg/m3 (Respirable Particulate) TLV-TWA

Engineering Controls : Consult a qualified engineer for evaluation of materials handling and explosion protection system(s).

Personal Protective Equipment (PPE):

Eye Protection : Safety glasses or goggles recommended.

Skin Protection : Rubber, plastic or leather gloves recommended.

Airborne Exposure Limits : None established

Ventilation System : Not expected to require any special ventilation.

Personal Respirators (NIOSH Approved) : If the concentrations exceed the Threshold Value Limit (TLV), a NIOSH approved dust respirator, supplied air respirator or self-contained breathing apparatus is recommended. Select appropriate respiratory protection for respirable particulates based on consideration of the air borne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR1910.134 http://www.access.gpo.gov/nara/cfr/cfr-retrieve.html#page1, ANSI Z88.2 http://www.ansi.org/, The NIOSH Respirator Decision Logic and good industrial hygiene practice http://www.cdc.gov/niosh/homepage.html. To simplify selection of the appropriate respirator, OSHA has developed the Advisor Genius. Available online, the advisor genius allows a safety professional to input the conditions under which the respirator will be used and receive a recommendation of the type of respirator to use. The advisor also contains information about types of respirators and factors that affect respirator use. The online advisor contains a set of options as to the use of the respirator (firefighting, welding, escape purposes, confined areas) and then generates a report with the relevant OSHA standard indicated. The advisor is available at http://www.osha.gov/SLTC/etools/respiratory/respirator_selection.html.

Section 9- Physical and Chemical Properties

Odor/Appearance	: Creamy white powder with a bean-like odor.
Boiling Point	: Not Applicable
Specific Gravity	: Not applicable
Melting Point	: Decomposes
Volatile %	: Not applicable
Vapor Pressure	: Not Applicable
Evaporation Rate (Butyl Acetate=1)	: Not Applicable
Vapor Density (Air=1)	: Not Applicable
pH	: 5-8
% Solubility in Water	: Complete
Octanol/Water Partition Coefficient	: Not Applicable

Section 10- Stability and Reactivity

Stability : Material is stable

Hazardous Decomposition Products : Combustion may produce carbon dioxide, carbon monoxide and oxides of nitrogen.

Hazardous Polymerization : Will not occur.

Incompatibilities : Avoid high temperatures, sparks, open flames and moisture. Avoid contact with strong oxidizing agents.

Conditions to Avoid : Not Available

Section 11- Toxicological Information

Guar Gum : Oral rat LD50: 9.4g/kg

Guar gum is a natural food additive, although direct use in powder or pill form is banned by the FDA due to the risk of respiratory or gastrointestinal blockage

Section 12- Ecological Information

NOEC – 100%
No other ecotoxicity data is available at this time.

Section 13- Disposal Considerations

Dispose in compliance with all applicable federal, state and local regulations. Do not dump down sewers or drains as this may cause blockage.

Section 14- Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name	: Not Regulated
Hazard Class	: N/A
UN/NA Code	: N/A
Packing Group	: N/A
Labels Required	: N/A

IMDG CODE

Proper Shipping Name	: NOT REGULATED
Hazard Class	: N/A
UN/NA Code	: N/A
Packaging Group	: N/A
Labels Required	: N/A

Section 15- Regulatory Information

Regulatory Information

The United States Food and Drug Administration, the European Economic Community and the World Health Organization accept guar gum as a food additive/ingredient providing it meets specified purity standards and dosage limitations. Maximum usage levels permitted may vary from country to country. Guar gum has been affirmed as GRAS by the United States Food & Drug Administration under title 21, CFR, part 184.1339; it is listed as item G.3 of Table IV, Division 16, of the Canadian Food and Drug Regulations and is referenced E-412under the EEC Council Directives.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Reportable Quantity:

This product is not subject to CERCLA reporting requirements as it is sold.

OSHA Hazard Categories : Irritant, Sensitizer, Target Organ Effect.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312
Hazard Categories : Fire Hazard, Acute Health

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 : None

California Proposition 65 : Guar gum is not a chemical known to the State of California to cause cancer or reproductive toxicity under the "Safe Drinking Water and Toxic Enforcement Act of 1986".

Toxic Substances Control Act (TSCA) : All components of this product are listed on the TSCA inventory or exempt from notification requirements.

Canadian Environmental Protection Act : All of the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

European Inventory of Existing Commercial Chemical Substances (EINECS) : All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements.

Japan MITI : All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

Australian Inventory of Chemical Substances : All of the components of this product are listed on the AICS Inventory or exempt from notification requirements.

Canadian WHMIS Classification : Class B, Division 4 (Flammable Solid)

Section 16- Other Information

NFPA Ratings:
NFPA® Flammable (combustible dust) with representative diameter less than 420 microns (40 mesh).

Health: 1 Flammability: 2 Reactivity: 0

HMIS Hazard Ratings:
Health: 1 Flammability: 1 Reactivity: 0

Abbreviations:

ACGIH	American Conference Of Governmental Industrial Hygienists
ANSI	American National Standards Institute
CAS	Chemical Abstracts Service
CDC	Centers for Disease Control and Prevention
CFR	The Code of Federal Regulations
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	United States Environmental Protection Agency
FDA	United States Food and Drug Administration

HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
LD50	Lethal Dose expected to cause death in 50% of the test animals
MITI	Ministry of International Trade and Industry
NFPA	National Fire Protection Association
NIOSH CDC	National Institute for Occupational Safety
NTP	National Toxicological Program
OSHA	U.S. Department of Labor, Occupational safety and health administration
PEL	OSHA - permissible exposure limit
TLV	ACGIH - threshold limit value
TWA	Time weighted average
UN/NA	United Nations / North America
US	United States
WHMIS	Workplace Hazardous Materials Information System

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