

## 1. Product and Company Information

**Product Name:** FiberRX™

Manufacturer/Supplier: HydroStraw, LLC

Address: 22110 S State Route 27

Rockford, Wa 99030

**Phone Number:** 800 - 545-1755 **Fax Number:** (815) 468-7450

e-mail: info@hydrostraw.com

#### 2. Hazards Identification

OSHA Hazardous Material: Yes

OSHA Hazard Categories: 1. Carcinogen - NO

2. Corrosive - NO

Highly Toxic - NO
 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 symptons 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, nasal congestion, sneezing, wheezing, and shortness of breath. 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.





#### 2. Hazards Identification Continued

# 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.

#### 3. Composition

#### **Guar Gum Based Blend**

Proprietary Blend of Guar Gum Based Tackifiers

#### 4. First Aid Measures

**Eye**: 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:** 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.

# **5. Firefighting Measures**

Flashpoint: Not Applicable

Lower Explosion Limit: 0.040 oz/cf

Autoignition Temperature: Not Determined

Upper Explosion Limit: Not determined

**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.





#### 5. Firefighting Measures Continued

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

**Unusual 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) are a 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.

**Combustion Products:** Oxides of carbon and nitrogen.

## **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.

## 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

**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.
- Respiratory Protection: 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 airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134 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



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# Safety Data Sheet

## 8. Exposure Controls / Personal Protection Continued

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.

# 9. Physical and Chemical Properties

**Boiling Point:** Not Applicable **Melting Point:** Decomposes **Specific Gravity:** Not applicable **% Volatile:** Not applicable

Vapor Pressure: Not Applicable Evaporation Rate (Butyl Acetate=1): Not Applicable

Vapor Density (Air=1): Not Applicable

% Solubility in Water: Complete

pH: 5-8

Octanol/Water Partition Coefficient: Not Applicable

Appearance: Off White to Yellow/Tan in Color

# 10. Stability and Reactivity

Stability: Material is stable.

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

Hazardous Reactions-Decomposition Products: Combustion may produce carbon dioxide, carbon monoxide

and oxides of nitrogen.

Hazardous Polymerization: Will not occur.

# 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

## 12. Ecological Information

No ecotoxicity data is available at this time.

## 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.

## 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





# 14. Transport Information Continued

**IMDG CODE** 

Proper Shipping Name: NOT REGULATED

Hazard Class: N/A UN/NA Code: N/A Packaging Group: N/A Labels Required: N/A

## 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-412 under 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)





#### 16. Other Information

# **NFPA Hazard 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





#### 16. Other Information Continued

#### NOTICE:

The data in this Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

