

SAFETY DATA SHEET

Date Issued : 09/29/2016
Date Revised : 12/18/2017

VERMICULITE COATED FIBERGLASS CLOTH

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Vermiculite Coated Fiberglass Cloth

SYNONYMS: Fabric, Tape, Rope and Tubing

USE OF THE SUBSTANCE/MIXTURE: No use is specified

DISTRIBUTOR:

GLT PRODUCTS
 6810 COCHRAN ROAD
 SOLON OH 44139

E-MAIL: info@gltproducts.com

HEALTH AND TECHNICAL CONTACTS:

1-800-874-1748 (8:00 am to 5:00 pm ET, weekdays)

2. HAZARDOUS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US CLASSIFICATION: Not classified

LABEL ELEMENTS

GHS-US LABELING: No labeling applicable

OTHER HAZARDS: The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Dust may cause mechanical irritation to eyes, nose, throat, and lungs.

UNKNOWN ACUTE TOXICITY (GHS-US): No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE: Not applicable

MIXTURE

| Name | Product Identifier | % |
|-------------------------|----------------------|------------|
| Glass, oxide, chemicals | (CAS No) 65997-17-3 | 85 - 95 |
| Vermiculite dispersion | (CAS No) 110638-71-6 | 0.5 - 3.75 |
| Quartz | (CAS No) 14808-60-7 | < 0.15 |

WITHIN THE MEANING OF THE OSHA HAZARD COMMUNICATION STANDARD [29 CFR 1910.1200]: This mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form.

4. FIRST AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES

FIRST-AID MEASURES GENERAL: The need for first aid is not anticipated under normal conditions of use.

FIRST-AID MEASURES AFTER INHALATION: Not expected to be a primary route of exposure. For particulates, dust, or fumes from processing: move to fresh air.

FIRST-AID MEASURES AFTER SKIN CONTACT: Gently wash with plenty of soap and water. Not expected to present a significant dermal hazard under anticipated conditions of normal use.

FIRST-AID MEASURES AFTER EYE CONTACT: No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

FIRST-AID MEASURES AFTER INGESTION: If swallowed, do not induce vomiting. Rinse mouth and obtain medical attention if necessary.

MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

SYMPTOMS/INJURIES: Not expected to present a significant hazard under anticipated conditions of normal use.

SAFETY DATA SHEET

Date Issued : 09/29/2016
Date Revised : 12/18/2017

VERMICULITE COATED FIBERGLASS CLOTH

SYMPTOMS/INJURIES AFTER INHALATION: Prolonged contact with large amounts of dust may cause mechanical irritation.

SYMPTOMS/INJURIES AFTER SKIN CONTACT: Direct contact may cause irritation by mechanical abrasion.

SYMPTOMS/INJURIES AFTER EYE CONTACT: May cause mechanical eye irritation.

SYMPTOMS/INJURIES AFTER INGESTION: Not expected to be a primary route of exposure. May cause irritation of the gastrointestinal tract.

CHRONIC SYMPTOMS: There are no known health effects from the long term use or contact with non-respirable continuous filament fibers, which is the type of fiberglass that is used. Non-respirable fibers cannot reach the deep lung because they have a diameter of greater than 3.5 micrometers. Fibers of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung, and thus have no possibility of causing serious pulmonary damage. They deposit on the surfaces of the upper respiratory tract, nose, or pharynx. These fibers are then cleared through normal physiological mechanisms.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: If medical advice is needed, have product container or label at hand.

5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

FIRE HAZARD: Product is not flammable.

EXPLOSION HAZARD: Product is not explosive.

REACTIVITY: Hazardous reactions will not occur under normal conditions.

ADVICE FOR FIREFIGHTERS

PRECAUTIONARY MEASURES FIRE: Exercise caution when fighting any fire.

FIREFIGHTING INSTRUCTIONS: Use firefighting measures appropriate for the surrounding fire.

PROTECTION DURING FIREFIGHTING: Do not enter fire area without proper protective equipment, including respiratory protection.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides (CO, CO₂). Acrid smoke. Organic compounds.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

GENERAL MEASURES: Accidental release of the product does not present a hazard under normal conditions of use.

FOR NON-EMERGENCY PERSONNEL

PROTECTIVE EQUIPMENT: Use of personal protective equipment (PPE) is not generally required but should be evaluated based on the extent and severity of accidental release.

EMERGENCY PROCEDURES: Evacuate the area if accidental release presents a significant hazard.

FOR EMERGENCY PERSONNEL

PROTECTIVE EQUIPMENT: Equip cleanup crew with proper protection as conditions warrant.

EMERGENCY PROCEDURES: Upon arrival at the scene a first responder is expected to protect oneself and the public, secure the area, and call for the assistance of trained personnel as conditions permit.

ENVIRONMENTAL PRECAUTIONS

The product does not pose a significant hazard to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

FOR CONTAINMENT: Contain the product and collect as any solid.

SAFETY DATA SHEET

Date Issued : 09/29/2016
Date Revised : 12/18/2017

VERMICULITE COATED FIBERGLASS CLOTH

METHODS FOR CLEANING UP: Clean up accidental release immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping as conditions permit.

REFERENCE TO OTHER SECTIONS: See Section 8 for advice on personal protective equipment and Section 13 for disposal considerations.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

ADDITIONAL HAZARDS WHEN PROCESSED: Further processing of the product requires an evaluation of potential hazards based upon intended use.

PRECAUTIONS FOR SAFE HANDLING: There are no specific precautions necessary for safe handling of the product.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety procedures.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

TECHNICAL MEASURES: No technical measures are necessary for storage of the product.

STORAGE CONDITIONS: No specific conditions are required for storage of the product.

INCOMPATIBLE PRODUCTS: None known.

SPECIFIC END USE(S): No use is specified

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS: For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Glass, oxide, chemicals (65997-17-3) | | |
|--------------------------------------|--------------------------------------|---|
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 3 fibers/cm ³ (fibers ≤3.5 μm in diameter & ≥10μm in length), TWA. 5mg/m ³ (total) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ total dust, 5 mg/m ³ , respirable fraction 8 hr |
| Quartz (14808-60-7) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 - Suspected Human Carcinogen |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ (respirable dust) |
| USA IDLH | US IDLH (mg/m ³) | 50 mg/m ³ (respirable dust) |
| USA OSHA | OSHA PEL (STEL) (mg/m ³) | 250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2 |

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS: Engineering controls are not required for normal use of this product.

PERSONAL PROTECTIVE EQUIPMENT: Personal protective equipment is not generally required but should be evaluated based on conditions of use.

RESPIRATORY PROTECTION: When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if found to be necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

APPEARANCE: White base material with golden brown coating

ODOR: No significant odor

SAFETY DATA SHEET

Date Issued : 09/29/2016
Date Revised : 12/18/2017

VERMICULITE COATED FIBERGLASS CLOTH

- ODOR THRESHOLD:** No data available
- pH:** Not applicable
- EVAPORATION RATE:** Not applicable
- MELTING POINT:** > 2000 °F (> 1093.33 °C)
- FREEZING POINT:** Not applicable
- BOILING POINT:** Not applicable
- FLASH POINT:** No data available
- AUTO-IGNITION TEMPERATURE:** No data available
- DECOMPOSITION TEMPERATURE:** No data available
- FLAMMABILITY (SOLID, GAS):** No data available
- VAPOR PRESSURE:** Not applicable
- RELATIVE VAPOR DENSITY AT 20°C:** Not applicable
- RELATIVE DENSITY:** No data available
- SPECIFIC GRAVITY:** 2.6
- SOLUBILITY:** Insoluble
- PARTITION COEFFICIENT:** N-Octanol/Water: Not applicable
- VISCOSITY:** Not applicable
- OTHER INFORMATION:** No additional information available

10. STABILITY AND REACTIVITY

- REACTIVITY:** Hazardous reactions will not occur under normal conditions.
- CHEMICAL STABILITY:** Stable under recommended handling and storage conditions.
- POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.
- CONDITIONS TO AVOID:** None known.
- INCOMPATIBLE MATERIALS:** None known.
- HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY: Not classified

| Quartz (14808-60-7) | |
|---------------------|--------------|
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rat | > 5000 mg/kg |

SKIN CORROSION/IRRITATION: Not classified Serious Eye Damage/Irritation: Not classified Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified

CARCINOGENICITY: Not classified. (There are no known health effects from the long term use or contact with non-respirable continuous filament fibers, which is the type of fiberglass that is used. Non-respirable fibers cannot reach the deep lung because they have a diameter of greater than 3.5 micrometers. Fibers of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung, and thus have no possibility of causing serious pulmonary damage. They deposit on the surfaces of the upper respiratory tract, nose, or pharynx. These fibers are then cleared through normal physiological mechanisms. This product is in a solid form; therefore, Quartz (14808-60-7) is not bioavailable, nor able to become airborne, and cannot be inhaled. Thus, the hazards usually associated with Quartz are not applicable to this product.)

Glass, oxide, chemicals (65997-17-3)

SAFETY DATA SHEET

Date Issued : 09/29/2016
Date Revised : 12/18/2017

VERMICULITE COATED FIBERGLASS CLOTH

| | |
|---|---|
| IARC group | 2B |
| Quartz (14808-60-7) | |
| IARC group | 1 |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

REPRODUCTIVE TOXICITY: Not classified

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Aspiration Hazard: Not classified

SYMPTOMS/INJURIES AFTER INHALATION: Prolonged contact with large amounts of dust may cause mechanical irritation.

SYMPTOMS/INJURIES AFTER SKIN CONTACT: Direct contact may cause irritation by mechanical abrasion.

SYMPTOMS/INJURIES AFTER EYE CONTACT: May cause mechanical eye irritation.

SYMPTOMS/INJURIES AFTER INGESTION: Not expected to be a primary route of exposure. May cause irritation of the gastrointestinal tract.

CHRONIC SYMPTOMS: There are no known health effects from the long term use or contact with non-respirable continuous filament fibers, which is the type of fiberglass that is used. Non-respirable fibers cannot reach the deep lung because they have a diameter of greater than 3.5 micrometers. Fibers of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung, and thus have no possibility of causing serious pulmonary damage. They deposit on the surfaces of the upper respiratory tract, nose, or pharynx. These fibers are then cleared through normal physiological mechanisms.

12. ECOLOGICAL INFORMATION

TOXICITY

ECOLOGY - GENERAL: Not classified.

PERSISTENCE AND DEGRADABILITY: Not established.

BIOACCUMULATIVE POTENTIAL: Not established.

MOBILITY IN SOIL: No additional information available

OTHER ADVERSE EFFECTS: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

WASTE DISPOSAL RECOMMENDATIONS: Dispose in a safe manner in accordance with local, regional, national, and international regulations.

14. TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

IN ACCORDANCE WITH DOT: Not regulated for transport

IN ACCORDANCE WITH IMDG: Not regulated for transport

IN ACCORDANCE WITH IATA: Not regulated for transport

SAFETY DATA SHEET

Date Issued : 09/29/2016
Date Revised : 12/18/2017

VERMICULITE COATED FIBERGLASS CLOTH

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

GLASS, OXIDE, CHEMICALS (65997-17-3): Listed on the United States TSCA (Toxic Substances Control Act) inventory

VERMICULITE DISPERSION (110638-71-6): Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA REGULATORY FLAG: P - P - indicates a commenced PMN substance

QUARTZ (14808-60-7): Listed on the United States TSCA (Toxic Substances Control Act) inventory

US STATE REGULATIONS

U.S. - MASSACHUSETTS: Right To Know List

U.S. - NEW JERSEY: Right to Know Hazardous Substance List

U.S. - PENNSYLVANIA: RTK (Right to Know) List

16. OTHER INFORMATION

US FEDERAL REGULATIONS

GLASS, OXIDE, CHEMICALS (65997-17-3): Listed on the United States TSCA (Toxic Substances Control Act) inventory

VERMICULITE DISPERSION (110638-71-6): Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA REGULATORY FLAG: P - P - indicates a commenced PMN substance

QUARTZ (14808-60-7): Listed on the United States TSCA (Toxic Substances Control Act) inventory

US STATE REGULATIONS

U.S. - MASSACHUSETTS: Right To Know List

U.S. - NEW JERSEY: Right to Know Hazardous Substance List

U.S. - PENNSYLVANIA: RTK (Right to Know) List