

SECTION 1: IDENTIFICATION & COMPANY INFORMATION

1.1 Product Identifiers

Product Name: Vermiculite Formulation
Trade Name: ZetexPlus[®] Products
Synonyms: Fabric, Tape, Rope and Tubing
Product Form: Article

1.2 Relevant Identified Uses

Identified Uses: No use is specified

1.3 Supplier Details

Company: Newtex Industries, Inc.
2007 Fulton Place
High Point, NC 27265 USA
Tel: (585) 924-9135

1.4 Emergency telephone number

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Call **CHEMTREC** Day or Night

DOMESTIC NORTH AMERICA **800-424-9300**

INTERNATIONAL, CALL 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classified Components: No Classified Components

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS): Not Classified

2.2 GHS Label Elements, Including Precautionary Statements

Pictogram: Not applicable

Signal word: No signal word

Hazard statement(s): No known health effects or hazards

Precautionary statement(s): Not applicable

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None

2.4 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances (Vermiculite) Synonyms: Not Applicable

3.2 Ingredients

Name	CAS Number	Percentage (%)
Glass, Oxide, Chemicals	65997-17-3	85-95
Aqueous Vermiculite Dispersion	1318-00-9	0.5-3.75
Naturally Occurring Minerals	Varies	<0.03

3.3 Hazardous Components: These products may contain naturally occurring Respirable Crystalline Silica (CAS #'s 14808-60-7 and 14464-46-1) at trace concentration levels below HazCom 2012 and GHS Revision 3 hazard classification limits. Per XRC analysis, which combines the analytical capabilities of X-Ray Diffraction, Computer Controlled Scanning Electron Microscopy/Energy Dispersive Spectroscopy and Raman Spectroscopy to conduct particle-by-particle inter-instrumental relocation and physicochemical/mineralogical analysis - naturally occurring trace level substances in these products, including Respirable Crystalline Silica are inextricably bound, environmentally unavailable and at de minimis concentrations. Thus, in the current and anticipated future physical state of these products, they are believed to be incapable of causing harm under normal conditions of use or as a result of extreme upset.

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3.4 **Additional Information:** Per Rietveld Enhanced XRD analysis (used to determine mixture and component content) naturally occurring trace level components in these products are insignificant and/or environmentally unavailable. Therefore, they have been excluded from reporting and further classification as either a health or environmental hazard is unwarranted.

SECTION 4: FIRST AID MEASURES

4.1. 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.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

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

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.

4.3 **Indication of any Immediate Medical Attention and Special Treatment Needed:** Treat symptomatically. Seek medical care if large quantities have been ingested or inhaled.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 **Extinguishing Media:** These products are not flammable. Use fire extinguishing media appropriate for surrounding materials
- 5.2 **Special Hazards Arising from the Substance or Mixture:** Hazardous combustion products do not occur
- 5.3 **Advice for Firefighters:** No specific fire-fighting procedures are needed

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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

6.1.1. 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.

6.1.2. 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.

6.2. Environmental Precautions

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

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain the product and collect as any solid.

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.

6.4. Reference to Other Sections

See Section 8 for advice on personal protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Wear personal protective equipment in accordance with those recommendations provided in Section 8. Use good hygiene practices and wash hands and face before eating, drinking or conducting personal hygiene. Reduce contamination from clothing and protective equipment before entering eating areas.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in accordance with local regulations

SECTION 8: HANDLING AND STORAGE

8.1. 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

8.2. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White base material with golden brown coating
Odor	: No significant odor
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

9.2. Other Information: No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal temperature conditions.

10.2 Chemical Stability: These products are stable.

10.3 Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid: None relative to designed use.

10.5 Incompatible Materials: None Known.

10.6 Hazardous Decomposition Products: None Known.

SECTION 11: TOXICOLOGY INFORMATION

11.1. 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)	
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.

SECTION 12: ECOLOGICAL INFORMATION

12.1 **Ecotoxicity:** Not Classified

12.2 **Acute Fish Toxicity:** Not considered toxic to fish

12.3 **Persistence and Degradability:** Not Established.

12.4 **Bioaccumulative Potential:** No Established.

12.5 **Mobility in Soil:** Not relevant, due to the form of the products

12.6 **Results of PBT and vPvB Assessment:** These products do not contain any PBT or vPvB substances

12.7 **Other Adverse Effects:** None. Vermiculite products represent a heat processed inorganic, inert material that does not constitute any known health hazards and is non-combustible.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Product: Dispose of waste and residues in accordance with local authority requirements. Vermiculite products are not considered a hazardous waste under RCRA (40 CFR Part 261).

SECTION 14: TRANSPORTATION 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.

14.1. **In Accordance with DOT** Not regulated for transport

14.2. **In Accordance with IMDG** Not regulated for transport

14.3. **In Accordance with IATA** Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. 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	

15.2. US State Regulations

Quartz (14808-60-7)
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

SECTION 16: OTHER INFORMATION

Further Information: License granted to make unlimited paper copies for internal use only. The above information is believed to be correct as of the date of preparation and does not purport to be all inclusive or account for naturally occurring variation in the composition of raw ores. It therefore, represents no guarantee of the properties associated with these products.

Date of Preparation or Latest Revision : 3/26/2025
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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