



Product Identification:

Vermiculite Coated Fiberglass, Stainless Steel Core
GT20C, GT23C, GT20S, GT23S,
GT20CX, GT23CX, GT20SX, GT23SX

Last revised: 11/2016

Manufacturer Identification:

Gaskets Incorporated
301 West Hwy 16
Rio, WI 53960
920-992-3137

Section 1: Identification

Textile glass fibers are continuous filament strands woven, knitted, braided or felted into a textile product. This product has a vertex finish which refers to its vermiculite coating.

Section 2: Hazard Identification

Classification:

Health, Respiratory or skin sensitization, 2 skin

Health, Skin Corrosion/irritation, 2

Health, serious eye damage/ eye irritation, 2B



Signal Word:

Warning

Hazard

Pictogram:

GHS Phrases:

H317- may cause an allergic skin reaction

H315- causes skin irritation

H320- causes eye irritation

H335- may cause respiratory irritation

GHS

Precautionary

Statements:

P264 Wash thoroughly after handling P333+313
is skin irritation or a rash occurs get medical
advice P337 if eye irritation persists: P337+313
Get medical advice/ attention

Acute exposure:

<u>Component</u>	<u>Wt%</u>	<u>CAS No.</u>	<u>ACGIH TLV (8hr TWA)</u>	<u>OSHA PEL</u>
<u>(8hr TWA)</u>				
Fiberglass		65997-17-3		
Nonrespirable	>96%	5mg/m ³		15mg/m ³ total dust
Respirable	<1%	3mg/m ³ , PNOC		5mg/m ³ , respirable
Respirable particulate with fiber like dimensions (glass shards) aspect	<0.002%		NE	1 fiber/cc; Ratio >5:1



Ratio >5:1

Vermiculite	110638-71-6		
Nonrespirable		10 mg/m ³	15 mg/m ³ , total dust
Respirable		3mg/m ³	5 mg/m ³
Quartz	014808-60-7		
Respirable		0.05 mg/m ³	0.1 mg/m ³

Respirable Quartz (Crystalline silica) can result in lung disease. However, due to the physical nature of this product and low concentration of product exposures are not expected. Exposure rates can increase when an exorbitant amount of dust is produced during application.

Dust from cutting and application may cause irritation to the respiratory tract and cause symptoms similar to bronchitis.

NFPA: Health=1, Fire=0, Reactivity=0

HMIS III: H*1/F0/PH0 Personal Protection: B , Safety Glasses and Gloves

Section 3: Composition and Information on Ingredients

<i>Ingredients</i>	<i>% w/w</i>	<i>CAS #</i>
Fiberglass	81-94%	65997-17-3
Vermiculite Dispersion	5-15%	110638-71-6
Quartz	.01-.5%	014808-60-7

Blue finish contains a non-hazardous blue dye for color purposes.

Other Ingredients: Items listed in this section are chemically or physically bonded to the fibrous glass textile and are deemed non-hazardous in the state that they are supplied.



Chemical and common name: Starches, PVA, lubricants, surfactants, and humectants (i.e. normal textile sizing) <3%.

Section 4: First-Aid Measures

Inhalation: If irritation occurs, move to fresh air.

Skin Contact: If irritation occurs, wash with cool water and mild soap. Washcloth may be helpful in removing fibers. To avoid worsening irritations refrain from rubbing and scratching the affected areas.

Eye Contact: If irritation occurs, gently rinse the affected area with clean water for at least 15 minutes.

Ingestion: Rinse mouth with water and seek medical attention. Watch the person for several days to make sure that intestinal blockage does not exist.

Primary Routes of Exposure: eye contact, skin contact and inhalation may cause temporary irritation.

Potential Health

Effects:

Inhalation: Dusts and fibers from this product may cause mechanical irritation of the nose, throat and respiratory track.

Skin Contact: Dusts and fibers from this fabric may cause temporary mechanical irritation to the skin.

Eye Contact: Dusts and fibers from this product may cause temporary mechanical irritations to the eyes.

Ingestion: Unlikely, however, ingestion of product may produce gastrointestinal irritation and disturbances.

If in any case irritation persists please seek medical assistance.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: dry chemical powder, foam, fog, carbon dioxide. Do not use direct water spray especially if fire began as an electrical fire.



Specific Hazards: not explosive. The product itself will not burn but its packaging may.

Flash point: n/a

Auto Ignition temp: n/a

Flammability limits: n/a

Hazardous Combustion Products: Primary combustion products are carbon monoxide, hydrogen, carbon dioxide, and potentially other undetermined compounds could be released in small quantities from the various sizings.

Special Protective Equipment: Self-containing breathing apparatus, protective clothing, gloves and a helmet.

Section 6: Accidental Release Measures

Personal Precaution: Do not breathe in fiber dust; use a respirator if there is a lot of dust while processing. Be sure to have appropriate ventilation while processing fibers.

Emergency Procedures: N/A product itself comes in a solid form on a roll. The only release concerns are during processing.

Methods and Materials for Containment: This material will settle out of the air. If concentrated on the ground, it can be scooped up for disposal or vacuumed as a non-hazardous waste. This material will sink and disperse along the bottom of waterways. It cannot be easily removed after it has become waterborne; however, it is not considered hazardous to water.

Clean Up Procedure: The most efficient method of cleanup is a filtered vacuum.

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Wear suitable protective gear when cutting and working with the material. Avoid breathing in dust. Handle in accordance with good industrial hygiene and safety practices. It is recommended that one does not eat, drink or smoke in the area where processing takes place.

For large rolls use appropriate mechanical devices.

Conditions for Safe Storage: Store in a cool, dry, well ventilated location



Section 8: Exposure Controls/ Personal Protection

Exposure Controls:

<u>Component</u> <u>(8hr TWA)</u>	<u>CAS No.</u>	<u>ACGIH TLV (8hr TWA)</u>	<u>OSHA PEL</u>
Fiberglass	65997-17-3		
Nonrespirable		5mg/m ³	15mg/m ³ total dust
Respirable		3mg/m ³ , PNOC	5mg/m ³ , respirable
Respirable particulate with fiber like dimensions (glass shards)	NE		1 fiber/cc; aspect Ratio
>5:1			Ratio >5:1
Vermiculite	110638-71-6		
Nonrespirable		10 mg/m ³	15 mg/m ³ , total dust
Respirable		3mg/m ³	5 mg/m ³
Quartz	014808-60-7		
Respirable		0.05 mg/m ³	0.1 mg/m ³

Only process with adequate ventilation, and do not consume food, drink or tobacco in areas where they may become contaminated with this material

Appropriate Engineering Controls: Ventilation- local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Individual Protection Measures: The following precautions are advisable during cutting and fabrication or other operations that could generate dust while using this material.



A properly fitted NIOSH approved N 95 series disposable dust respirator is recommended, when high level of dust is present, the level is above the exposure limits or if an irritation occurs.

Eye protection: Safety glasses, goggles, or face shields, as necessary.

Protective clothing: wear loose fitting long sleeve shirt and pants to protect areas from exposure to dust. The use of barrier creams can, in some instances, be helpful.

Medical conditions aggravated by exposure: persons with a history of chronic respiratory or skin conditions that are aggravated by mechanical irritants may be at increased risk or worsening their condition from exposure to this product.

Work/Hygiene Practices:

-Handle in accordance with good industrial hygiene and safety practices. avoid unnecessary exposure to dust

- remove fiber from skin after exposure

-rubbing and scratching can force the fibers into the skin. The use of barrier creams in some instances can be helpful. -use vacuum equipment to remove fibers and dusts from clothing

-recommended to wash work clothes separately from other washables.

Section 9: Physical and Chemical Properties

Appearance: Tan or blue

Odor: none *Odor Threshold:* n/a *pH:* n/a

Melting: >800°C (1472°F)

Initial Boiling Point: n/a

Flash Point: n/a

Evaporation: n/a

Flammability: none flammable

Upper/Lower Flammability: n/a

Vapor Pressure: n/a

Vapor Density: n/a

Relative Density: ~ 2.6 g/cm³

Solubility: insoluble in water



Partition coefficient: n/a

Viscosity: n/a

Auto-ignition Temp: n/a

Section 10: Stability and Reactivity

Reactivity: N/A

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reaction: none reasonably foreseeable

Conditions to Avoid: none reasonably foreseeable

Incompatible Materials: Phosphoric acid, hydrofluoric acid, strong hydroxides.

Hazardous Decomposition Products: Thermal decomposition may release carbon dioxide, carbon monoxide, and low molecular weight hydrocarbons. The decomposition of the sizing and binders are possible in a fire. Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

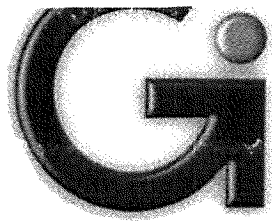
Primary Routes of Exposure: eye contact, skin contact and inhalation may cause temporary irritation.

Potential Health Effects:

Inhalation: Dusts and fibers from this product may cause mechanical irritation of the nose, throat and respiratory track.

Skin Contact: Dusts and fibers from this fabric may cause temporary mechanical irritation to the skin.

Eye Contact: Dusts and fibers from this product may cause temporary mechanical irritations to the eyes.



Ingestion: Unlikely, however, ingestion of product may produce gastrointestinal irritation and disturbances.

Acute Effects: Dust may cause mechanical irritation of the eyes and skin. Ingestion may cause transient irritation of throat, stomach, and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. People with pre-existing respiratory issues may experience more irritation.

Carcinogenicity:

Fiberglass ACGIH- NO IARC-NO NTP-NO OSHA-NO

Carcinogenicity:

<i>Ingredient</i>	<i>IARC Group 1</i>	<i>IARC Group 2A</i>	<i>IARC Group 2B</i>	<i>NTP Known</i>	<i>NTP Suspect</i>	<i>OSHA</i>
Vermiculite Dispersion	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
Quartz	<i>Yes</i>	<i>No</i>	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>Yes</i>

Mutagenicity: N/A





Teratogenicity: N/A

Reproductive Toxicity: N/A

In June 1987, the international Agency for Research on Cancer (IARC) categorized fiberglass continuous filaments as not classifiable with respect to human carcinogenicity. The evidence from human, as well as animal studies was evaluated by IARC as insufficient to classify fiberglass continuous filaments as possible, probable, or confirmed cancer causing material.

One of the concerns that people still have about fiberglass and cancer are studies such as the 1997 study from the Institute of Occupational Medicine (IOM) in Edinburgh, Scotland. This study found that animals exposed to an extremely high dose of a durable E-glass microfiber, with average diameters less than 1 micron, developed lung scarring and tumors, including cancer of the lining of the lungs (mesothelioma). The IOM Study results are consistent with previous published research indicating that high doses of durable, fine diameter fibers can cause disease in experiment animals.

Although our continuous filaments are an E-glass, they are not the same as the micro-fibers tested in this study. The exposure of durable E-glass microfiber, with an average diameter of less than 1 micron would not be significant in using and processing this product.

This product's coating uses chemically delaminated vermiculite dispersed in 80-95% water. The vermiculite used in this product is a naturally-occurring mineral mined in South Carolina which contains tremolite in the ore body. Except for trace amounts, the tremolite, which is predominately non-fibrous, is removed from the vermiculite during processing. In an effort to assure that this product is high purity, the supplier has retained the services of an outside independent laboratory. This lab has analyzed samples using an electron microscope. Using this technique, no fibrous tremolite has been detected.

Quartz is a naturally occurring mineral that is commonly contained in materials that are mined from the earth's surface such as sand, limestone, clay and gypsum (calcium sulfate). Total quartz is a value usually representing the combined fraction of large non-respirable sized particles and of respirable sized particles (less than ten micros in aerodynamic diameter). It is only the respirable sized fraction of total quartz that is recognized as hazardous by professionals in the field of Occupational Health and by most regulatory agencies.

In addition, a wet sieving analysis combined with x-ray diffractometry has been conducted. Results indicate that respirable quartz is not present above the 0.1% by weight limit established by OSHA for carcinogens and in fact is below the limits of detection for the analysis. OSHA states that if the



hazardous substance is contained in the product below 0.1% by weight and if the exposures do not exceed permissible exposure limits then the hazards do not apply.

Section 12: Ecological Information

Ecotoxicity" n/a

Persistence and Degadability: n/a

Bioaccumulative potential: n/a

Mobility is Soil: n/a

This product is not considered harmful to aquatic organisms not to cause long term adverse effects to the environment.

Section 13: Disposal Considerations

Disposal should be in accordance with relevant national and local regulations pertaining to the disposal of non-hazardous waste. Do not dump dust particles into sewers or any body of water.

Section 14: Transport Information

UN Number: n/a

Shipping information: Not regulated to transport

Section 15: Regulatory Information

n/a

Section 16: Other Information

Revised 8/30/2016

