

Material Safety Data Sheet

VEXTRA® GLV, CGLV, and GLVT SERIES with LDX Suffix

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Names/Synonyms	Vextra with LDX suffix/Woven fiber glass treated with vermiculite and amorphous silica in various forms - cloth, tapes, blankets, tubing, etc.
Product Identification	GLV, CGLV, and, GLVT series with <u>LDX</u> suffix.
Chemical Name/Synonyms	Continuous filament fiber glass treated with (Li,K)·(Mg, Ca, K, Fe ^{II}) ₃ (Si, Al, Fe ^{III}) ₄ O ₁₀ (OH) ₂ ·H ₂ O and silicon dioxide/fibrous glass, glass fibers treated with vermiculite and amorphous silica.
Manufacturer's Name	Auburn Manufacturing, Inc P. O. Box 220 Mechanic Falls, ME 04256 207/345-8271
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Reviewed for content & accuracy	April 1, 2003

DISCONTINUED

April 15, 2003

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Fiberglass, continuous filament	proprietary	a.	10 mg/ m ³ 8-hr TWA	3 x 10 ⁶ fibers/m ³ 10-hr TWA (NIOSH)
Vermiculite, (Li,K)·(Mg, Ca, K, Fe ^{II}) ₃ (Si, Al, Fe ^{III}) ₄ O ₁₀ (OH) ₂ ·H ₂ O	proprietary	5 mg/m ³ TWA respirable dust	10 mg/ m ³ TWA total dust	none established
SiO ₂ , Silicon dioxide, amorphous silica	proprietary	6 mg/m ³ 8 hour TWA	10 mg/m ³ total dust 8 hour TWA	1 mg/m ³ 8 hour TWA respirable silica dust* 6 mg/m ³ 8 hour TWA total dust*

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2. COMPOSITION / INFORMATION ON INGREDIENTS (CONT'D)

<u>Nonhazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Sizing	≤ 3.5	-----none established-----		

a. OSHA has not established a specific PEL for fibrous glass. It is considered to be a "particulate not otherwise regulated" (PNOR) and is covered under the OSHA nuisance dust PEL's of 5 mg/m³ for the respirable dust fraction and 15 mg/m³ for the total dust fraction for an 8-hr TWA (Time Weighted Average).

*. DuPont's acceptable exposure limit, AEL.

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE: Inhalation and skin contact.

HEALTH HAZARDS (Including acute and chronic effects and symptoms of overexposure):

ACUTE:Inhalation: Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose and throat). Vermiculite dust is slightly alkaline in nature and may cause coughing, sneezing, and minor upper respiratory irritation. Toxic effects for SiO₂, amorphous silica, described in animals from single inhalation exposures include upper respiratory irritation, lung congestion, bronchitis, and emphysema. Repeated inhalation exposures at concentrations of 50 or 150 mg/m³ produced increased lung weights and lung changes. No progressive pulmonary fibrosis was seen and the observed lung changes were reversible. No adverse effects were observed in this study at 10 mg/m³.

Skin Contact: Skin contact with dusts and fibers may produce itching and temporary mechanical irritation.

Eye Contact: Eye contact with fibers and dusts may produce irritation due to slight alkaline nature and physical/mechanical abrasion.

Ingestion: Not expected to be harmful if swallowed. However, irritation or upset stomach may result due to the slight alkaline nature of the vermiculite dust; temporary mechanical irritation of the digestive tract may result from the fiberglass fibers. Observe individual. If symptoms develop, consult a physician. Effects for SiO₂, amorphous silica, by ingestion from single high doses include weight loss and irritation. Repeated ingestion exposures produced nonspecific effects such as weight loss and diarrhea.

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3. HAZARDS IDENTIFICATION (CONT'D)

HEALTH HAZARDS (Including acute and chronic effects and symptoms of overexposure):

CHRONIC: See carcinogenicity section below. There are no known health effects associated with chronic exposure to this product.

CARCINOGENICITY:

Hazardous Ingredients: Listed as carcinogen by: ACGIH IARC NTP OSHA

Fiberglass continuous filament No No* No No

Vermiculite N.A. N.A. N.A. N.A.
(Not Applicable)

SiO₂, amorphous silica ----- see note a. -----

*IARC: In June, 1987 the International Agency for Research on Cancer (IARC) categorized fiberglass continuous filaments as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiberglass continuous filaments as a possible, probable, or confirmed cancer causing material.

note a. Effects observed in animals exposed by intratracheal instillation for one to two years included fibrosis of the lungs. No animal test reports are available to define the carcinogenic, mutagenic, embryotoxic, or reproductive effects.

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 for worsening their condition from exposure during use of the product.

4. FIRST AID MEASURES

Inhalation: Move individual to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation do not rub or scratch irritated areas. Rubbing or scratching may force fibers into the skin. Seek medical attention if irritation persists.

Eye Contact: Flush eyes with flowing water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Adverse health effects are not expected if swallowed. Do not induce vomiting. Consult a physician if symptoms develop.

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5. FIRE FIGHTING MEASURES

Flash Point (°F): NA (Not Applicable)

Auto Ignition Temperature (°F): NA

Flammability Limits (%): LEL: NA UEL: NA

Extinguishing Media: Water, foam, carbon dioxide, dry chemical

Special Fire-Fighting Instructions: In a sustained fire, self contained breathing apparatus should be worn.

Unusual Fire and Explosion Hazards: None known.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS (Use Appropriate Safety Equipment): For solid product, not applicable. For dusts and fibers generated during fabrication vacuum up and containerize.

7. HANDLING, STORAGE AND DISPOSAL

HANDLING: See Section 8.

STORAGE: No special precautions necessary.

DISPOSAL: Dispose in accordance with federal, state and local regulations as a solid nonhazardous waste.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: General dilution ventilation and/or local exhaust ventilation should be provided, as necessary, to maintain exposures below PEL's or TLV's. **Adequate ventilation must be provided at elevated temperatures.**

RESPIRATORY PROTECTION: A properly fitted NIOSH/MHSA approved disposable dust respirator such as the 3M model 8710 or model 9900 (in high humidity environments) or equivalent should be used when: high dust levels are encountered; the level of glass fibers in the air exceeds the OSHA permissible exposure limits; or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program and OSHA regulations under 29 CFR 1910.134.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT'D)

EYE PROTECTION: Safety glasses, goggles or face shields should be worn whenever fiberglass materials are being handled.

PROTECTIVE CLOTHING: Wear loose fitting, long sleeved shirt that covers to the base of the neck, and long pants. Skin irritation from exposure to fiberglass is known to occur chiefly at pressure points such as around the neck, wrist and waist. Wear gloves when handling product.

WORK/HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practices:

- = Avoid unnecessary exposure to dusts and fibers
- = Remove fibers from skin after exposure
- = Be careful not to rub or scratch irritated areas. Rubbing or scratching may force the fibers into the skin. The fibers should be washed off. Use of barrier creams can, in some instances, be helpful.
- = Use vacuum equipment to remove fibers and dusts from clothing. **COMPRESSED AIR SHOULD NEVER BE USED.** Always wash work clothes separately and wipe out the washer/sink in order to prevent loose glass fibers from getting on other clothes.
- = Keep the work area clean of any dusts and fibers generated during fabrication. Use vacuum equipment to clean up dusts and fibers. Avoid sweeping or using compressed air as these techniques resuspend dusts and fibers into the air.
- = Have access to safety showers and eye wash fountains.
- = For professional use only. **Keep out of children's reach.**

9. PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT (Softening): NM (Not Measured)

BOILING POINT (°C): NA (Not Applicable)

SPECIFIC GRAVITY: NM

PERCENT VOLATILE: NA

VAPOR PRESSURE (mm Hg): NA

VAPOR DENSITY (Air = 1): NA

EVAPORATIVE RATE (Ethyl Ether = 1): NA SOLUBILITY IN WATER: Not soluble

APPEARANCE AND ODOR: Greenish brown/tan colored solid with no odor.

pH: 7.5 - 9.5 (Vermiculite)

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10. STABILITY AND REACTIVITY

STABILITY (Conditions to Avoid): Product is stable.

INCOMPATIBILITY (Materials to Avoid): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Sizings or binders may decompose in a fire. Primary decomposition products include carbon monoxide, carbon dioxide, other hydrocarbons and water.

HAZARDOUS POLYMERIZATION: Will not occur.

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