

Safety Data Sheet

VEXTRA® GLVIC SERIES

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<u>Trade Names/Synonyms:</u>	Vextra® tadpole tape with Inconel mesh core/Woven Fiber glass, treated with vermiculite, tadpole tape with Inconel mesh core.
<u>Product Identification:</u>	GLVIC series.
<u>Chemical Name/Synonyms:</u>	Chemical Name/Synonyms Continuous filament fiber glass treated with (Li,K)-(Mg,Ca, K, Fe ¹¹) ₃ (Si, Al, Fe ¹¹) ₄ O ₁₀ (OH) ₂ -H ₂ O – Inconel mesh core/fibrous glass, glass fibers treated with vermiculite – Inconel mesh core.
<u>Manufacturer's Name:</u>	Auburn Manufacturing, Inc P. O. Box 220 Mechanic Falls, ME 04256 207/402-3838

2. HAZARDS IDENTIFICATION

OSHA HCS Status: Product is not a hazardous chemical as defined by OSHA Standard 29 CFR 1910.1200



Precautionary Statements:

- P281: Wear personal protective equipment as required
- P302: If on skin, wash with mild soap and running water
- P304: If inhaled, move individual to fresh air. Seek medical attention if irritation persists
- P305: If in eyes, flush eyes at least 15 minutes; seek medical attention if irritation persists

Hazard Statements: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Abstracts Service Number: N/A

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3. COMPOSITION / INFORMATION ON INGREDIENTS (CON'T)

<u>Hazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Fiberglass, continus Filament	See note a.	b.	5 mg/m ³ 8hr TWA (inhalable) 1 fiber/cm ³ 8hr TWA (respirable)	3 x 10 ⁶ fibers/m ³ 10-hr TWA (NIOSH)
Vermiculite, (Li,K). (Mg, Ca, K, Fe ¹¹) ³ (Si, Al, Fe ¹¹) ₄ O ₁₀ (OH) ₂ H ₂ O	See note a.	5 mg/m ³ TWA respirable dust	10 mg/m ³ TWA total dust	none established
Inconel mesh	See note a.			
Chromium (Cr)	See note a.			
Fume		0.5 mg/m ³	0.05 mg/m ³	-----
Dust/mist		1.0 mg/m ³	0.05mg/m ³	-----
Nickel (Ni)	See note a.			
Fume (soluble)		1.0 mg/m ³	0.1 mg/m ³	-----
Dust		1.0 mh/m ³	1.0 mg/m ³	-----
Manganese (Mn)	See note a.			
Fume		5.0 mg/m ³ C*	1.0 mg/m ³	-----
Dust		5.0 mg/m ³ C*	5.0 mg/m ³ C*	-----
Cobalt (Co)	See note a.	0.1 mg/m ³	0.1 mg/m ³	-----
Iron (Fe) (as oxide fume)	See note a.	10 mg/m ³	5 mg/m ³	-----
Aluminum (Al)	See note a.	none	10 mg/m ³	-----
Molybdenum (Mo)	See note a.	15 mg/m ³	10 mg/m ³	-----
Tantalum (Ta)	See note a.	5 mg/m ³	5 mg/m ³	-----
Tungsten (W)	See note a.	none	5 mg/m ³	-----
Yttrium (Y)	See note a.	1 mg/m ³	1 mg/m ³	-----

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3. COMPOSITION / INFORMATION ON INGREDIENTS (CON'T)

Nonhazardous Ingredients

Sizing	See note a.	-----none established-----
Inconel mesh	See note a.	
Niobium (Nb)	See note a.	----- none established -----
Iron (Fe) Dust	See note a.	----- none established -----

C* = Ceiling Limit

- Percentages will vary depending on the diameter of the inconel mesh core and the width of the tail.
- 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).

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.

5. FIRE FIGHTING MEASURES

- Extinguishing Equipment: 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.

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6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS (Use Appropriate Safety Equipment/PPE):

For solid product, not applicable.

For dusts and fibers generated during fabrication, vacuum 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. Adequate ventilation must also be provided when welding or grinding the inconel core.**

Respiratory Protection: A properly fitted NIOSH/MHSA approved disposable dust respirator such as the 3M model 8210 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.

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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CON'T)

- = **Do not expose skin when cutting, grinding or welding the Inconel mesh cable**
- = 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.**

Exposure Limits (TLVS): N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting Point (Softening): NM (Not Measured) Boiling Point(°C): N/A (Not Applicable)

Specific Gravity (Bare Glass): NM Percent Volatile: N/A

Vapor Pressure: (mm Hg): N/A Vapor Density (Air = 1): N/A

Evaporative Rate (Ethyl Ether = 1): N/A Solubility in Water: Not soluble

Appearance and Odor: Greenish brown/tan colored solid with no odor. The inconel mesh core has a characteristic gray color and no odor.

pH: 7.5 - 9.5 (Vermiculite) Relative Density: N/A

Upper/Lower Flammability or Exposure Limits: N/A

Freezing Point: N/A Flash Point: N/A

Partition coefficient (n-octanol/water): N/A Auto Ignition Temperature: N/A

Decomposition Temperature: N/A Viscosity: N/A

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10. STABILITY AND REACTIVITY

Stability (Conditions to Avoid): Product is stable.

Stabilizers: N/A

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.

Flash Point (°F): N/A (Not Applicable)

Auto Ignition Temperature (°F): N/A

Flammability Limits (%):

LEL: N/A

UEL: N/A

11. TOXICOLOGICAL INFORMATION

Primary Routes of Exposure: Inhalation and skin contact.

Health Hazards (Including acute and chronic effects and symptoms of overexposure):

<u>ACUTE:</u>	<u>Inhalation:</u>	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. Inconel - dust or fumes may give a metallic taste; headache; nausea; chills; fever; tightness of chest; irritation of the respiratory tract, eyes, nose; cough. Loss of consciousness/death due to welding gases or lack of oxygen.
	<u>Skin Contact:</u>	Skin contact with dusts and fibers may produce itching and temporary mechanical irritation.
	<u>Eye Contact:</u>	Eye contact with fibers and dusts may produce temporary mechanical irritation.
	<u>Ingestion:</u>	Temporary mechanical irritation of the digestive tract. Observe individual. If symptoms develop, consult a physician.

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11. TOXICOLOGICAL INFORMATION (CON'T)

CHRONIC: Chronic exposure to Chromium (Cr)/Nickel (Ni)/Manganese (Mn) fumes or dust may cause skin sensitization, asthma, bronchitis, lung fibrosis or pneumoniosis. It may also cause damage to the kidneys and liver as well as the nervous system. See carcinogenicity section below. There are no known health effects associated with chronic exposure to this product.

CARCINOGENICITY:

Hazardous Ingredients:	Listed as carcinogen by:	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Fiberglass continuous filament		No	No*	No	No
Chromium (Cr)/Nickel (Ni)**		-----	none known	-----	-----
Vermiculite		NA	NA	NA	NA (Not Applicable)

***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.

****Dusts and fumes containing Chromium (Cr) or Nickel (Ni) should be considered carcinogens.**

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.

12. ECOLOGICAL INFORMATION

N/A

13. DISPOSAL CONSIDERATIONS

See Section 8 (if applicable)

14. TRANSPORT INFORMATION

N/A

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15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

SDS Date prepared

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