Safety Data Sheet

AMI-GLAS® GLW RR SERIES

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Names/Synonyms:	AMI-GLAS® stainless steel wire inserted/Woven fiber glass with S304 alloy stainless steel wire inserted, and coated in various forms - cloth, tapes, tadpole, blankets, etc.
Product Identification:	GLW with RR suffix series.
Chemical Name/Synonyms:	Continuous filament fiber glass - stainless steel alloy with an acrylic coating/acrylic fibrous glass, glass fibers - stainless steel alloy.
Manufacturer's Name:	Auburn Manufacturing, Inc P. O. Box 220 Mechanic Falls, ME 04256 1-800-264-6689

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: 65997-17-3 (Fiberglass substrate)

Hazardous Ingredients	Weight %	OSHA-PEL	ACGIH-TLV	OTHER
Fiberglass, continuous	76.5 to 97.0	a.	5 mg/ m3.8 hr filament TWA (inhalable)	3 x 10^6 fibers/m3
			1 fiber/cm^3 8-hr TWA (respirable)	10-hr TWA (NIOSH)
Stainless steel alloy #S304	3.0 to 20.0			
Chromium (Cr)	0.54 to 4.0			
fume		0.5 mg/m3	0.05 mg/m3	
dust/mist		1.0 mg/m3	0.5 mg/m3	
Nickel (Ni)	0.24 to 2.1			
fume (soluble)		1.0 mg/m3	0.1 mg/m3	
dust		1.0 mg/m3	1.0 mg/m3	
Manganese (Mn)	0.0 to 0.4			
fume		5.0 mg/m3 C*	1.0 mg/m3	
dust		5.0 mg/m3 C*	5.0 mg/m3 C*	
Sb2O5 Antimony Pentoxide	1.0 – 4.0 (0.75 – 3.0 as Sb)	0.5 mg/m3 (as Sb)	0.5 mg/m3 (as Sb)	0.5 mg/m3 (NIOSH)

Nonhazardous Ingredients

Acrylic polymer	4 – 16	----------none established----------	
Sizing	< 3.5	----------none established----------	
Iron (Fe) dust fumes (as Iron oxide)	2.0 to 14.8	----------none----------	
		10 mg/m3	5.0 mg/m3

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).

C* = Ceiling limit

4. FIRST AID MEASURES

Inhalation: Move individual to fresh air. Seek medical attention if irritation persists. Administer artificial respiration, if breathing has stopped.

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: N.A (Not Applicable)

5. FIRE FIGHTING MEASURES

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

Special Fire-Fighting Instructions: In a sustained fire, self contained breathing apparatus with full facepiece and protective clothing should be worn.

Unusual Fire and Explosion Hazards: None known.

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 of 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 should be usedwhen: high dust levels are encountered; the level of Chromium/Nickel/Manganese dust or glass fibers in the air exceeds the OSHA permissable exposure limits; or if irritation occurs. Use an air supplied respirator in confined spaces. Use industrial hygiene air monitoring to insure that TLV or PEL values are not exceeded. 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.

= 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(^{O}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: White/off-white/tan colored solid with gray lustrous stainless steel wires inserted in the fabric and no odor.

pH: N/A 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

10. STABILITY AND REACTIVITY

Stability (Conditions to Avoid): Product is stable.

Stabilizers: N/A

Incompatability (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 (^{O}F): N/A (Not Applicable)

Auto Ignition Temperature (^{O}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):

ACUTE:

Inhalation: Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose and throat). Chromium (Cr)/Nickel (Ni)/Manganese (Mn) - dust or fumes may give a metallic taste, headache, nausea, chills, fever, irritation of the respiratory tract, cough.

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 temporary mechanical irritation.

Ingestion: Temporary mechanical irritation of the digestive tract. Observe individual. If symptoms develop, consult a physician.

CHRONIC: See carcinogenicity section below. 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.

CARCINOGENICITY:

Hazardous Ingredients:	Listed as carcinogen by: ACGIH	IARC	NTP	OSHA
Fiberglass continuous filament	No	No*	No	No
Chromium (Cr)/Nickel (Ni)**	----none known----			

*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

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

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