

Material Safety Data Sheet _____

AMI-GLAS® AMGL, AMGLTW, AMCTGL, AMCGL, and AMGLT SERIES1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Names/Synonyms	AMI-GLAS®-aluminized/Aluminized woven fiber glass with aluminized polyester (PET) film in various forms - cloth, tapes, blankets, etc.
Product Identification	AMGL, AMGLTW, AMCGL, AMCTGL and AMGLT series.
Chemical Name/Synonyms	Continuous filament fiber glass/fibrous glass, glass fibers with aluminized polyester film.
Manufacturer's Name	Auburn Manufacturing, Inc. P. O. Box 220 Mechanic Falls, ME 04256 207/345-8271
Date prepared	February 28, 1995
Revised	April 30, 1996
Added AMCTGL	April 3, 2006
Reviewed for content & accuracy	May 8, 2009
Revised – ACGIH-TLV	August 12, 2009

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	≥ 87.0	a.	5 mg/ m ³ .8 hr TWA (inhalable) 1 fiber/cm ³ 8-hr TWA (respirable)	3 x 10 ⁶ fibers/m ³ 10-hr TWA (NIOSH)
<u>Nonhazardous Ingredients</u>				
Sizing	≤ 3.5		-----none established-----	
Adhesive	approx. 1.5		-----not known-----	
Aluminized polyethylene terephthalate film	3.7 to 8.0		-----not known-----	

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).

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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).
	<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.

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

***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.

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.

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4. FIRST AID MEASURES (CONT)

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

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.**

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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.
- = 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.**

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9. PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT (Softening): 800°C
PET film melts at 235°C.

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

SPECIFIC GRAVITY (Bare Glass): NA

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: White/off-white/tan colored solid on one side/aluminum colored on the other side with no odor.

pH: NA

10. STABILITY AND REACTIVITY

STABILITY (Conditions to Avoid): Product is stable.

INCOMPATIBILITY (Materials to Avoid): Temperatures above 235°C. Strong acids and bases may hydrolyze the PET film.

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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