

GLASS FIBER PRODUCT

1	CHARACTERISTIC		MANTA LEON	
2	WEAVE		3 1 TWILL	
3	YARN (tex)	WARP	EC9 68 1 N 2	ECG 74 1/2
		WEFT	EC9 68 1 X 2	ECG 74 1/2
4	WIDTH		101.6 cm 121.9 cm 152.4 cm 182.9 cm	40 inch 48 inch 60 inch 72 inch
5	CLOTH THICKNESS		0.43 mm	0.017 inch
6	COAT STYLE		BOSSEYED PU (20g)	
7	COAT THICKNESS		0.02 mm	0.0007 inch
8	TOTAL THICKNESS		0.45 mm	0.0177 inch
9	TOTAL WEIGHT		450 g/m ²	13 OZ/YD ²
10	THREAD COUNT	WARP	18 per cm	45 per inch
		WEFT	13 per cm	33 per inch
11	TENSILE STRENGTH MIN	WARP	6000N/ 5cm	666 lbs/inch
		WEFT	4500N/ 5cm	500 lbs/inch
12	SERVICE TEMPERATURE		550°C	

Material safety data sheet

Fiber Glass Fabric with polyurethane

LEON

Section I

Fiber Glass Fabric with polyurethane

Section II -Composition/Information on Ingredients

Hazardous Ingredients	Weight %	OSHA-PEL	ACGIH-CLV	Other
Fiberglass, continuous filament	*96.5	*	10mg/m ³ 8-hr TWA	3X10 fibers/m ³ 10-hr TWA(NPOSH)

Non-hazardous Ingredients - _____

Sizing ≤3.5 _____None Established_____

"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).

Section III-Hazardous Identification

Primary Routes of Exposure Inhalation and skin contact

Health Hazards (acute & 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.)

Skin Contact-Skin contact with fibers and dust may produce temporary mechanical irritations.

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

Chronic

See carcinogenicity section below. There is no known health effects associated with chronic exposure to this product,

Carcinogenicity

Hazardous Ingredients	ACGIH	IARC	NTP	O•2HA
Fiberglass continuous filament	No	No	Mo	No

* MARC-Sn June :t987 the International Agency for research on Cancer (IARC)categorized fibrous

continuous filaments as not classifiable with respect to human carcinogenicity(Group 3). The evidence from human as well as animal studies was evaluated by MARC 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 this product.

Section IV-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 N/A

Section V -Fire Aid Measures

Flash Point (F) N/A

Auto Ignition Temperature(F) N/A

Flammability **Limits** %LEL: N/A UEL: N/A

Extinguishing Media Water, foam, carbon dioxide, dry chemical

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

Unusual Fire and Explosion Hazards None known

Section VI-Accidental Release Measures

Action To Take For Spills For sold product no applicable. For dusts and fibers generated during fabrication, vacuum up and containerize.

Section VII-Handling, Storage and Disposal

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 TEMPERATURE.

Respiratory Protection A properly fitted NIOSH/MHSA approved dust respirator such as 3M model 8710 or model 9900(In high humidity environment)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 handled.

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 bur 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 cloths separately and wipe out the washer/sink in order to prevent loose glass fibers from getting in other clothing.
- Keep work area clean of any dust and fibers, Avoid sweeping or using compressed air as these techniques re-suspend dusts and fibers into air.
- Have access to safety showers and eye wash fountains.
- For professional use only. KEEP OUT OF CHILDREN'S REACH

Section IV-Physical and Chemical Properties

Melting Point(Softening) 800°	Boiling Point C°	N/A
Specific Gravity (Bare Glass) 2.59	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 no odor	
PH	N/A	

Section V -Stability and Reactivity

Stability (Conditions to Avoid) Product is stable

Incompatibility (Materials to Avoid) None known

Hazardous Decomposition Products No occur.

Hazardous Polymerization Will not occur

To the best of our knowledge, the information on contained herein is accurate. The information provided is based upon data furnishes by Manufacturer. Assume liability whatsoever for the accuracy or completeness of the information contained herein. While believed to be reliable, the information of products is intended for use by skilled persons at their own risk. Final

~~determination of suitability of any material is the sole responsibility of the user. All materials~~

may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that those are the only hazards that exist.

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