Material Safety Data Sheet

WELDSHIELD 1790 SF-G

SECTION I – CHEMICAL PRODUCT AND COMPANY ID

Trade Names/Synonyms	Red and Black Fiberglass is coated with silicone elastomer/Woven fiber glass coated with silicone elatomer, in various forms – rolls, blankets, etc.
Chemical Name/Synonyms	Continuous filament fiberglass coated with compounded polysiloxane polymer/fibrous glass - glass fibers coated with silicone rubber

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS:

Hazardous Ingredients	Weight %	OSHA – PEL	ACGIH-TLV	OTHER
Fiberglass, continuous filament	≥ 66.5 ≥ 81.5	a.	10 mg/m³ 8 hr TWA	3 x 10 fibers/m³ 10 – hr TWA (NIOSH)
Compounded polysiloxane polymer	15.0 to 30.0	----------Not Known----------		

Non - hazardous Ingredients

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 irrespirable dust fraction and 15 mg/m³ for the total dust fraction for an 8 – hr TWA (Time Weight Average).

SECTION III – HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE Inhalation and skin contact.

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

ACUTE:

Inhalation:	Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose & throat)
Skin Contact:	Skin contact with dusts and fibers may produce itching and temporary mechanical irritation
Eye Contact:	Eye contact with fibers and dust 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. There is 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
Compounded polysiloxane		----------Not Known---------			
Polymer					

***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 increased risk for worsening their condition from exposure during use of the 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. (not applicable)

SECTION V – FIRE FIGHTING MEASURES:

Flash Point (ºF): NA (not applicable)

Auto Ignition Temperature (ºF): 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

SECTION VI – 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.

SECTION VII – 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 non-hazardous waste.

SECTION VIII – 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 NOISH/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.

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 fivers 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.**

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT (Softening): NM (not measured)

SPECIFIC GRAVITY (Bare Glass): NM

VAPOR PRESSURE (mm Hg): NA

EVAPORATIVE RATE (Ethyl Ether = 1): NA

APPEARANCE AND ODOR: Flexible coated fabric of various colors with no odor.

pH: NA

BOILING POINT (ºC): NA (Not Applicable)

PERCENT VOLATILE: NA

VAPOR DENSITY (Air = 1): NA

SOLUBILITY IN WATER: Not soluble

SECTION X – STABILITY AND REACTIVITY

STABILITY (Conditions to Avoid): Product is stable
INCOMPATIBILITY (Materials to Avoid): None Known
HAZARDOUS DECOMPOSITION PRODUCTS

Sizings, binders or coating may decompose in a fire. Primary decomposition products include carbon monoxide, carbon dioxide, silicone dioxide other hydrocarbons and water.

HAZARDOUS POLYMERIZATION: Will not occur.

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