

Firelce Shield (Pre-mixed Gel) Welding Blanket¹

Safety Data Sheet



¹Safety Data for Substrate Blanket can be found in Appendix 1

SECTION 1: Identification

1.1. Identification

Product name : Firelce Shield (Pre-mixed Gel Ready for Use)

1.2. Relevant identified uses of the substance or mixture (and uses advised against)

Use of the substance/mixture : Fire Retardant Gel (FRG); Fire Suppressant; Asset Protection and Containment for use in Hot Work

1.3. Details of the supplier of the safety data sheet

MLR Holdings 2020, LLC
14550 Peace River Way,
Palm Beach Gardens FL, 33418
(954) 614-2171

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified as hazardous

2.2. Label elements

GHS-US labeling

No labeling applicable

Hazard pictograms (GHS-US)

Not applicable

Signal Word (GHS-US)

Not applicable

Hazard statements (GHS-US)

Not applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	Classification (GHS-US)
Water	(CAS No) 7732-18-5	Not classified
Polyacrylate Polymer	(CAS No) Trade Secret	Eye Irrit. 2B, H320

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove to fresh air and remove material from affected areas. Seek medical advice or attention in the event of any adverse symptoms or irritation.
First-aid measures after skin contact	: Wash with water. Seek medical advice if skin irritation develops or persists.
First-aid measures after eye contact	: Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
First-aid measures after ingestion	: Immediate first aid is not likely to be required. Seek medical advice or attention in the event of any adverse symptoms.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Exposure may cause respiratory tract and lung irritation and may aggravate existing respiratory conditions.
Symptoms/injuries after skin contact	: Exposure, such as in manufacturing, may aggravate existing skin conditions due to drying effect.
Symptoms/injuries after eye contact	: Eye contact may cause burning, drying, itching and other discomfort, resulting in reddening of the eyes.

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Symptoms/injuries after ingestion : Although not a likely route of entry, tests have shown that polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Not flammable. Use suitable extinguishing media for surrounding fire.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known.
Explosion hazard : None known.

5.3. Advice for firefighters

Protection during firefighting : No hazard is presented from use of this product; however, firefighters should wear personal protective gear during firefighting

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

None.

6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material if this is without risk. Use caution after contact of product with water as slippery conditions may result.
Methods for cleaning up : Product may be removed by wiping treated area with water. If product has dried, sweep or vacuum material when possible and shovel into a waste container. Dispose of waste in accordance with local, state, and federal regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Avoid storage in excessive heat or freezing temperatures; safely store at ambient temperatures between 10 and 55 degrees C. Keep container tightly closed. May be stored for up to six years.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with limit values that require monitoring at the workplace:

8.2. Additional Information

No additional information available

8.3. Exposure controls

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection : None required under normal product handling conditions.
Eye protection : Safety glasses should be worn in accordance with good industrial hygiene and safety practices.
Skin and body protection : Wear suitable working clothes.

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Respiratory protection : None required under normal product handling conditions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid/Gel
Appearance	Viscous
Odor	Odorless
Odor threshold	: No data available
pH	: 7.05
Melting point	: 390 °C
Freezing point	: -3°C
Boiling point	: 100 °C
Flash point	: > 100 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: Insoluble.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Conductivity	: Less than 5 Siemens per meter
Combustibility	: Non-combustible
Thermal Performance	: Exceeds standards set in accordance with FM 4950

9.2. Other information

Shake/agitate prior to use.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information

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Acute toxicity : Not classified

11.1. Information on toxicological effects

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
Polyacrylate Polymer (Trade Secret)	
LD50 oral rat	> 40 g/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No negative or toxic effects on the environment are anticipated when released in dilution for terrestrial and aquatic ecosystems; based on government testing. Composted polyacrylate polymers are inert and nontoxic to aquatic or terrestrial organisms at predicted exposure levels from current application rates.

12.2. Persistence and degradability

Decomposes over time or in the presence of natural sunlight when applied to terrestrial substrate or vegetation. Product is inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (>90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylic polymers will not affect the performance of wastewater treatment systems.

12.3. Bio accumulative potential

No additional information available

12.4. Mobility in soil

Polyacrylate polymers are immobile in landfills and soil systems (>90% retention), with the mobile fraction showing biodegradability.

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This product is a non-hazardous waste material suitable for approved solid waste landfills. Diluted product is non-soluble and can be disposed of in suitable effluent treatment plants. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not a dangerous good as defined in transport regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Polyacrylate Polymer (Trade Secret)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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15.2. US State regulations

No additional information available

SECTION 16: Other information

Eye Irritation	Eye irritation, Category 2B
Note:	Safety glasses should be worn in accordance with good industrial hygiene and safety practices.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Appendix 1

Firelce Shield Premixed Gel/Welding Blanket Substrate Blanket Safety Data See Section 16 for Important Information

SECTION 1: Identification

1.1. Identification

Product Name : Firelce Shield Blanket
Substrate Identification : Continuous filament fiber glass/woven fiber glass

1.2. Relevant identified uses of the substance or mixture (and uses advised against)

Use of the substance/mixture : Fire Retardant Gel (FRG); Fire Suppressant; Asset Protection and Containment for use in Hot Work

1.3. Details of the supplier of the safety data sheet

MLR Holdings 2020, LLC
14550 Peace River Way,
Palm Beach Gardens FL, 33418
(954) 614-2171

SECTION 2: Hazards Identification

OSHA HCS Status: This product is not a hazardous chemical, as defined by OSHA at 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

SECTION 3: Composition/Ingredient Information

Chemical Abstracts Service Number: 65997-17-3 (Fiberglass)

Hazardous Ingredients	Weight %	OSHA-PEL	ACGIH-TLV	OTHER
Fiberglass, continuous Filament	> 96.5	a.	5 mg/ m3.8 hr TWA (inhalable)	3 x 10 ⁶ fibers/m ³

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1 fiber/cm³
8-hr TWA
(respirable) 10-hr TWA
(NIOSH)

Nonhazardous 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 respirable dust fraction and 15 mg/m³ for the total dust fraction for an 8-hr TWA (Time Weighted Average).

SECTION 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:	N/A. (Not Applicable)

SECTION 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.

SECTION 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.

SECTION 7: HANDLING, STORAGE AND DISPOSAL

Handling:	See Section 8.
Storage:	No special precautions necessary.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Disposal:	Dispose in accordance with federal, state and local regulations as a solid nonhazardous waste.
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 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:
	<ul style="list-style-type: none"> Avoid unnecessary exposure to dusts and fibers Remove fibers from skin after exposure Be careful not to rub or scratch irritated areas. Rubbing or

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	scratching may force the fibers into the skin. The fibers should be washed off. Use of barrier creams can, in some instances, be helpful.
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> Have access to safety showers and eye wash fountains.
	<ul style="list-style-type: none"> For professional use only. Keep out of children's reach.
Exposure Limits (TLVS):	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Melting Point (Softening):	800oC
Boiling Point(oC):	N/A (Not Applicable)
Percent Volatile:	N/A
Vapor Density (Air = 1):	N/A
Solubility in Water:	Not soluble
Specific Gravity (Bare Glass):	2.59
Vapor Pressure: (mm Hg):	N/A
Evaporative Rate (Ethyl Ether = 1):	N/A
Appearance and Odor:	White/off-white/tan colored solid with no odor.
pH:	N/A
Upper/Lower Flammability or Exposure Limits:	N/A
Freezing Point:	N/A
Partition coefficient (n-octanol/water):	N/A
Decomposition Temperature:	N/A
Relative Density:	N/A
Flash Point:	N/A
Auto Ignition Temperature:	N/A
Viscosity:	N/A

SECTION 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

SECTION 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)
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. There are no known health effects associated with chronic exposure to this product.

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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.	

SECTION 12: ECOLOGICAL INFORMATION

N/A

SECTION 13: DISPOSAL CONSIDERATIONS

See Section 8 (if applicable)

SECTION 14: TRANSPORT INFORMATION

N/A

SECTION 15: REGULATORY INFORMATION

This substrate fabric does not contain any California Proposition 65 Substances as of the 12/29/17 update or come in contact with California Proposition 65 Substances during the manufacturing process.

SECTION 16: OTHER INFORMATION

FABRIC FINISH: PLAIN
NOMINAL WEIGHT: 18.0 OZ/YD²
NOMINAL THICKNESS: 0.036"
UNTREATED TEMPERATURE RESISTANCE: 1000°F
STANDARD COLOR: WHITE
CONTENT: 100% FIBERGLASS YARNS
WEAVE: PLAIN
COUNT: WARP: 19
FILL: 14
UNCOATED FIBERGLASS FABRIC IS NONCOMBUSTIBLE MEETING USCG 164.009 – 5(f)
Meets the requirements of ASTM C1695-09, Standard Specification for Fabrication of Flexible Removable and Reusable Insulation for Hot Service
Substrate fabric subjected to testing in accordance with and conforming to ANSI/FM 4950 For Hot Work Protection
Military Specifications: MIL C 20079H TYPE 1 CLASS 9; MIL-DTL-24244D (SH)
Country of Origin" Made in the USA

Safety data for the untreated substrate fabric is provided for information only. Once fully impregnated with Firelce Shield gel, we believe the specifications of the Firelce Shield® Premixed Gel as provided in the primary SDS describe the gel coated blanket for the purposes of health, safety and environmental requirements and should not be construed as guaranteeing any specific property of the product. While believed to be reliable, the information and product 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.