

Material Safety Data Sheet

JPS Composite Materials Corp. RFL Coated Polyester Fabric

MSDS No. 216

Date of Preparation: 9-1-99

Revision: 12/23/09

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: JPS Composite Materials Corp. RFL Coated Polyester Fabric

Finish Types: 1311

CAS Number: None

Other Designations: Woven Polyester Fabric

General Use: Industrial

Manufacturer: JPS Composite Materials Corp., 101 Slater Road, P.O Box 242, Slater, SC 29683, Phone: 864-836-8011.

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt or % vol |
|---------------------------------|------------|---------------|
| Continuous Polyester Filament | 67892-23-3 | 75 to 85% |
| Weaving sizes | None | 0.1 to 1% |
| Resorcinol-Formaldehyde Polymer | 24969-11-7 | 15 to 24% |
| Black Pigment | None | 1-2% |
| Vinyl Chloride Polymer | None | 4-8% |

Trace Impurities: N/A

| Ingredient | OSHA PEL | | ACIH TLV | | NIOSH REL | | NIOSH |
|-------------------------|----------|------|----------|------|-----------|------|-------|
| | TWA | STEL | TWA | STEL | TWA | STEL | IDLH |
| Polyester filament | N/E | N/E | N/E | N/E | N/E | N/E | N/E |
| Weaving Sizes | N/E | N/E | N/E | N/E | N/E | N/E | N/E |
| Resorcinol/Formaldehyde | N/E | N/E | N/E | N/E | N/E | N/E | N/E |
| Black Pigment | N/E | N/E | N/E | N/E | N/E | N/E | N/E |
| Vinyl Chloride Polymer | N/E | N/E | N/E | N/E | N/E | N/E | N/E |

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

There are no health hazards for which first aid is required.

Potential Health Effects

Primary Entry Routes: Inhalation

Target Organs: None

Acute Effects

Inhalation: Unlikely to occur.

Eye: Direct contact will cause mechanical irritation.

Skin: Transient Mechanical irritation possible.

Ingestion: Unlikely to occur. Observe individual. If symptoms of GI irritation occur, consult physician.

Carcinogenicity: IARC, NTP, and OSHA do not list JPS Composite Materials Corp. RFL coated polyester fabric as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: None Known.

Chronic Effects: None known

| HMIS | |
|-----------------------------|---|
| H | 1 |
| F | 0 |
| R | 0 |
| PPE ^{††} Sec. 8 | |

Section 4 - First Aid Measures

Inhalation: Remove to fresh air. Drink water to clear throat and blow nose to expel fibers.

Eye Contact: Flush with water for 5 minutes. Get medical assistance if irritation persists.

Skin Contact: Wash with soap and water.

Ingestion: Drink water. If GI irritation symptoms persist, get medical attention.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: See above.

Special Precautions/Procedures: None.

Section 5 - Fire-Fighting Measures

Flash Point: Material will burn if exposed to flame.

Flash Point Method: N/A

Burning Rate: N/A

Auto ignition Temperature: None

LEL: None

UEL: None

Flammability Classification: Non-Flammable

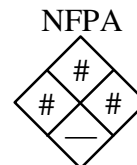
Extinguishing Media: Water is the best extinguishing media. Use that which is appropriate for the extinguishing media.

Unusual Fire or Explosion Hazards: Large amts. Of smoke may be produced.

Hazardous Combustion Products: Thermal decomposition of fiber and fiber coating may produce an irritating mixture of smoke and fumes.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Prevent the spread of polyester fibers and avoid dust generation conditions. Those involved in the cleanup of fibers should use appropriate personal protective equipment. (See Section 8) Vacuum clean dusts. If sweeping is necessary, use a dust suppressant.

Containment: N/A

Cleanup: See Spill/Leak Procedures.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Handle properly to avoid the generation and spread of fibrous dusts.

Storage Requirements: Store in proper containers to reduce or eliminate the spread of fibrous dusts. If possible keep humidity levels up to reduce the generation of airborne fibrous dusts.

Regulatory Requirements: Keep airborne dusts and fibers below recommended regulatory limits.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: None

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne dust or fiber concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls: None

Respiratory Protection: Where airborne dusts or fibers exceed the TLV, use NIOSH approved respirator to protect against nuisance dusts. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions and levels of airborne contamination.

Protective Clothing/Equipment: If necessary wear protective gloves or use barrier cream to protect against any mechanical irritation. Eye protection is not required unless fiber levels might cause mechanical irritation of the eyes or local regulations require the use of eye protection. Goggles should then be used. Other protective clothing is not required.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash hands after handling material.

Section 9 - Physical and Chemical Properties

Physical State: Woven polyester fabric.

Appearance and Odor: No discernable odor.

Odor Threshold: N/A

Vapor Pressure: None.

Vapor Density (Air=1): N/A

Formula Weight: N/A

Density: N/A

Specific Gravity (H₂O=1, at 4 °C): N/A

pH: 6-8 in distilled water.

Water Solubility: Not soluble.

Other Solubilities: N/A

Boiling Point: N/A

Freezing/Melting Point: 260 Deg. C.

Viscosity: N/A

Refractive Index: N/A

Surface Tension: N/A

% Volatile: N/A

Evaporation Rate: N/A

Section 10 - Stability and Reactivity

Stability: JPS RFL Coated Polyester Fabric is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: None

Conditions to Avoid: None

Hazardous Decomposition Products: Thermal oxidative decomposition of JPS RFL coated polyester fabric can produce oxides of Carbon, Nitrogen and Oxygen. The exact composition will depend upon the conditions of combustion.

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects: None known

Skin Effects: None known

Acute Inhalation Effects: Non Known

Acute Oral Effects: None known

Chronic Effects: None known

Carcinogenicity: No

Mutagenicity: No

Teratogenicity: No

* See NIOSH, RTECS for any additional toxicity data.

Section 12 - Ecological Information

JPS Composite Materials Corp. RFL coated polyester fabric is considered to be an inert solid waste and will not cause harm to the environment is released. This product is not manufactured with or does not contain any Ozone depleting chemicals.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

Disposal Regulatory Requirements: N/A

Container Cleaning and Disposal: N/A

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: JPS RFL Fabric

Shipping Symbols: None

Hazard Class: None

ID No.: None

Packing Group: None

Label: None

Special Provisions (172.102):
None

Packaging Authorizations

a) **Exceptions:** None

b) **Non-bulk Packaging:** None

c) **Bulk Packaging:** None

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** None

b) **Cargo Aircraft Only:** None

Vessel Stowage Requirements

a) **Vessel Stowage:** None

b) **Other:** None

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ): No RQ

SARA 311/312 Codes: N/A

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29CFR 1910.) No

State Regulations: None

Section 16 - Other Information

Revision Notes: None

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