

Safety Data Sheet

# SHELTER-RITE<sup>®</sup> Architectural Fabrics

NOTE: This product meets the definition of "article" under the OSHA Hazard Communication Regulations in 29 CFR 1910.1200(c) and is exempt from the requirement to provide a Safety Data Sheet per 29 CFR 1910.1200(b)(6)(v). This Safety Data Sheet is provided on a voluntary basis to provide additional information to customers.

Rev. Date: 13 Jan 2023

#### SECTION 1. IDENTIFICATION

Product Name:		SHELTER-RITE <sup>®</sup> Architectural Fabrics		
Trade Names:		Styles: 8028, 8032, 8221, 8321, 8324, 8424, 8520, 9032, 9319 Coatings: FRLTC, FRLTA		
Recommended Use:		Fabric buildings/structures		
Manufacturer:	SEAMAN COR	PORATION 24-HR EMERGENCY (Chemtrec)		

Wandfacturer. SEAMAN CORPORATION 1000 Venture Blvd. Wooster, OH 44691 USA PHONE: (330) 262-1111 www.seamancorp.com 24-HR EMERGENCY (Chemtrec) U.S./Canada: (800) 424-9300 International: +1 703 527-3887

#### SECTION 2. HAZARDS IDENTIFICATION

This material does not meet any hazard classification under the HCS.

Under normal use and handling, the product is not expected to create any physical or health hazards.

Excessive heating may result in the generation of smoke or fumes containing hydrogen chloride, carbon dioxide, carbon monoxide, and trace amounts of organic compounds due to decomposition of the components. These fumes may be irritating to respiratory tract and eyes.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Exposure to individual components is not expected under normal conditions of use. Listing of major components and exposure limits are given for reference only.

Regulated Components	CAS No.	<u>Weight %</u>
Antimony Trioxide Folpet	1309-64-4 133-07-3	5-10% < 1%
Major Components	CAS No.	
Polyester fabric PVC Resin Phthalate plasticizer Ethene, 1,1,-difluoro-, homopolymer (Kynar® and TS215 PVDF coated products only) Ethene, flouro-, homopolymer (Tedlar® clad products only)	Not applicable 9002-86-2 ** 24937-79-9 24981-14-4	

\*\* Specific chemical identity is withheld as a trade secret under 29 CFR 1910.1200(i). None of the plasticizers used are regulated under the Consumer Products Safety Improvement Act, REACH Annex XVII, or appear on the REACH SvHC Candidate List or Authorisation List.

# SECTION 4. FIRST AID MEASURES

Inhalation:	If exposed to fumes from overheating or combustion, move to fresh air. Seek medical attention if symptoms persist.
Skin Contact:	Wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.
Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
Ingestion:	Not applicable

# SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties:	Material is self extinguishing, but will burn if exposed continuously to an external combustion source and yield hydrogen chloride, carbon monoxide, carbon dioxide, and small amounts of aliphatic and aromatic hydrocarbons.
Suitable Extinguishing Media:	Water fog, $CO_2$ , foam or dry chemical (CAUTION: $CO_2$ will displace air in confined spaces and may cause an oxygen deficient atmosphere.)
Products of Combustion:	Hydrogen chloride, carbon dioxide, carbon monoxide, trace amounts of aliphatic and aromatic organics
Protection of Firefighters:	Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear. No special procedures are expected to be necessary for this product.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protection recommended in Section 8.
Environmental Precautions:	No special procedures necessary
Methods for Containment:	No special procedures necessary
Methods for Clean-up:	No special procedures necessary

#### SECTION 7. HANDLING AND STORAGE

Handling:	Use protective equipment recommended in Section 8. Wash hands after repeated handling. When hot air or wedge welding, insure adequate local ventilation to prevent the buildup of fumes.
	Unwinding, winding, and passage of the fabric through and over rollers can generate a strong electrostatic charge on the surface of the fabric. Static discharge devices should be used when handling in this way.
Storage:	Rolled goods should be kept dry and protected from moisture.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:	Provide local exhaust ventilation for any thermal processing operations.		
Eye/Face:	Wear safety glasses during processing		
Skin:	Wear general purpose gloves during prolonged handling		
Respiratory:	Provide adequate local ventilation. If exposure limits are exceeded, NIOSH approved respiratory		
	protection must be provided.		
General Hygiene:	Wash hands with soap and water after handling material.		

### EXPOSURE GUIDELINES

_	COMPONENT	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	COMMENTS
	PVC Resin (9002-86-2)	-	-	-	None established
	Folpet (133-07-3)	-	-	-	None established

# Seaman Corporation Safety Data Sheet SHELTER-RITE® ARCHITECTURAL FABRICS

Titanium Dioxide (13463-67-7)	15 mg/m <sup>3</sup> TWA (total dust)	10 mg/m <sup>3</sup> TWA	-	
Antimony Trioxide (1309-64-4):	0.5 mg/m <sup>3</sup> TWA as Sb	0.5 mg/m³ TWA as Sb	0.5 mg/m³ TWA as Sb	

**NOTE:** Due to product form, exposure to dust or fume is not expected to occur; exposure limits are given for reference only.

### Potential byproducts from thermal processing/overheating:

	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	COMMENTS
Hydrogen Chloride (7647-01-0)	5 ppm	2 ppm	5 ppm	The odor threshold for
	(7 mg/m <sup>3</sup> ) Ceiling	(2.98 mg/m <sup>3</sup> )	(7 mg/m <sup>3</sup> )	HCI is 0.25 ppm
		Ceiling	Ceiling	
Carbon Monoxide (630-08-0)	50 ppm	25 ppm	35 ppm (40	
	(55 mg/m <sup>3</sup> ) TWA	(29 mg/m <sup>3</sup> ) TWA	mg/m³) TWA;	
			200 ppm (229	
			mg/m <sup>3</sup> ) Ceiling	

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Polymeric sheeting	Odor:	Characteristic
Odor threshold:	NA	pH:	NA
Melting/Freezing Point:	NA	Boiling Point:	NA
Flash Point:	NA	Evaporation Rate:	NA
Flammability:	NA	LFL/UFL:	NA
Vapor Pressure:	NA	Vapor Density:	NA
Relative Density:	NA	Solubility:	none
Partition Coefficient Kow:	NA	Auto-Ignition Temp.:	850°F
Decomposition Temp.:	Not determined	Viscosity:	NA

# SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Not reactive
Chemical Stability:	Stable at normal temperatures
Hazardous Reactions:	Will not occur
Conditions to Avoid:	Prolonged excessive heating
Incompatible Materials:	None known.
Hazardous Decomposition:	Thermal decomposition products: Hydrogen chloride, carbon dioxide, carbon monoxide,
	trace amounts of aliphatic and aromatic organics

# SECTION 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS:

POTENTIAL HEALTH EFFECTS:						
Summary:	Smoke generated from heating or burning the product is the primary health effect.					
Inhalation:	Irritation of the upper respiratory tract may occur from fumes and smoke generated during heating					
Skin Contact:	Prolonged handling may cause mechanical irritation					
Eye Contact:	Fumes from heating may cause irritation, redness, and burning					
Ingestion	Not an expected route of entry					
Target Organs:	Lungs/respiratory tract, eyes					
ACUTE TOXICITY General Information:	No data available for this product as a whole. Adverse health effects would not be					
	anticipated with normal use. However, thermal processing can emit fumes which may cause eye and respiratory irritation.					
Component Analysis:	Due to the physical form of the product, exposure to the chemical components of the fabric and coating is not expected. Contact manufacturer (contact information in Section 16) to obtain detailed information regarding component toxicity.					
CARCINOGENICITY						

General Information:	This product has not been evaluated by OSHA, NTP, ACGIH, or IARC. No specific data available.
Component Analysis:	<ul> <li>PVC Resin (9002-86-2): IARC: Group 3 – Not Classifiable (Vol. 19, Suppl. 7, 1987)</li> <li>Antimony Trioxide (1309-64-4): IARC: Group 2B – Possibly Carcinogenic to Humans (Vol. 47, 1989) ACGIH: A2 – Suspected Human Carcinogen</li> <li>Titanium Dioxide (13463-67-7): IARC: Group 2B – Possibly Carcinogenic to Humans (Vol. 93, 2010) ACGIH: A4 – Not Classifiable as a Human Carcinogen NIOSH: Potential occupational carcinogen</li> <li>Folpet (133-07-3): EPA: B2 – Probable Human Carcinogen (sufficient evidence from animal studies; inadequate evidence or no data from epidemiologic studies)</li> </ul>

**<u>CHRONIC TOXICITY</u>** No data is available on mutagenicity, reproductive effects, or developmental effects.

#### SECTION 12. ECOLOGICAL INFORMATION

No data is available on the adverse effects of this product on the environment. Toxicity is expected to be low based on insolubility in water.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with Federal, State, and local environmental control regulations. This material is not hazardous in its manufactured form under the Resource Conservation and Recovery Act. (40 CFR 261)

#### SECTION 14. TRANSPORTATION INFORMATION

This product is not classified as hazardous for transportation.

#### SECTION 15. REGULATORY INFORMATION

SARA Title III:	Health:	Acute <u>NO</u>	Chronic <u>NO</u>	EHS <u>NO</u>
	Physical:	Fire <u>NO</u>	Reactivity <u>NO</u>	Pressure <u>NO</u>

SARA 313 (TRI):

California Proposition 65:

This product is considered an "article" under SARA Title III Section 313 and is not subject to reporting under normal conditions of use.



**WARNING:** This product can expose you to chemicals including antimony trioxide and folpet, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### SECTION 16. OTHER INFORMATION

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. No warranty of merchantability or any other warranty, expressed or implied, is given. In no case shall the information provided herein be considered a part of the terms and conditions of sale. Seaman Corporation assumes no obligation or liability for the information given or results obtained. All materials may present unknown hazards and should be used with caution. Final determination of suitability of any material is the sole responsibility of the user.

For questions related to the safety of this product, e-mail msds@seamancorp.com or call (330) 262-1111.

Shelter-Rite® is a registered trademark of Seaman Corporation Kynar® is a registered trademark of Arkema Tedlar® is a registered trademark of DuPont



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19 October 2023

Chris Jordan Director of Project Management Arizon Building Systems 11880 Dorsett Road St. Louis, MO 63043

# RE: PFAS content – 8028 FRLTC

Dear Mr. Jordan:

To clarify the status of Seaman Corporation's Shelter-Rite® 8028 FRLTC products:

8028 FRLTC with Acrylic Top Finish (TS139) or Tedlar<sup>®</sup> cladding do not contain any intentionally added constituents classified as perfluoroalkyl or polyfluoroalkyl substances (PFAS), as defined by the broad definitions of the Organization for Economic Co-operation and Development (OECD) or various state regulations, including the Washington Safer Products Restrictions (WAC 173-337-025).

The PVDF coating used in 8028 FRLTC with PVDF Top Finish (TS215 or TS237) does qualify as a PFAS under the above definitions. However, it is a polymeric PFAS, significantly different from the non-polymeric PFAS's that have been the cause of recently publicized groundwater contamination issues. In fact, PVDF is considered a "polymer of low concern" under OECD and other national standards, including the United States, where it is exempt from Pre-Manufacture Notification under the Toxic Substances Control Act (TSCA). In addition, PVDF was not included in the definition of PFAS under the recently issued TSCA PFAS Reporting Rule (88 Fed. Reg. 70516, 40 CFR 705).

If you have any questions, please contact me at (330) 202-4470, or e-mail me at ashimko@seamancorp.com.

Best Regards,

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Andrew J. Shimko, P.E. Environmental Manager SEAMAN CORPORATION