



Seaman Corporation

Article Information Sheet

SHELTER-RITE® TARP 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 Article Information Sheet is provided on a voluntary basis to provide additional information to customers.

Rev. Date: 30 Nov 2016

SECTION 1. IDENTIFICATION

Product Name: SHELTER-RITE® TARP FABRICS

Trade Names: Styles and coatings types as follows:
Styles: 21xx, 30xx, 3213, 35xx, 38xx, 58xx, 84xx (xx=2-digit finished weight target)
Coatings: MFRLTC, MFRLTA, FRLTC, FRLTA, MFRTRT, GALTC

Recommended Use: tarps and covers

Manufacturer: SEAMAN CORPORATION
1000 Venture Blvd.
Wooster, OH 44691 USA

PHONE: (330) 262-1111
INTERNET: www.seamancorp.com
24-HR EMERGENCY: (800) 424-9300 (Chemtrec)

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.

Certain colors (see Section 3) may contain lead chromate based pigments. Recommend washing of hands after prolonged handling, or wearing of appropriate gloves.

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.

Major Components

Nylon fabric (Styles 21, 30, 32) or Polyester fabric (Styles 35, 38, 58, 84)
PVC Resin
Alkyl phthalate plasticizers

CAS No.

Not applicable
9002-86-2
**

Other Regulated Components

Folpet
Diisodecyl phthalate (DIDP)***
Pigments (certain colors - see below)

133-07-3
26761-40-0

% wt

<0.4%
0-5%

FRLTC/FRLTA Products only:

Antimony Trioxide

1309-64-4

0-10%

** Specific chemical identity is withheld as a trade secret under 29 CFR 1910.1200(i).

*** Not present in products marked CPSIA compliant

Where "CPSIA" appears in product description, product contains no components regulated under the U.S. Consumer Products Safety Improvement Act.

The following colors may also contain Lead Chromate (CAS 7758-97-6) as a color pigment:

DC2 Red	DC513 JD Green	DC934 Green
DC24 Green	DC516 Orange	DC936 Philly Green
DC42 Yellow	DC737 Yellow	DC943 Yellow
DC70 Orange	DC843 Green	DC983 Lt. Blue
DC156 I. Orange	DC869 Yellow	DC986 Navy
DC245 Grape	DC896 Gray	

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 will burn if exposed 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

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- 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
Diisodecyl phthalate (26761-40-0)	-	-	-	None established
Folpet (133-07-3)	-	-	-	None established
*Antimony Trioxide (1309-64-4)	0.5 mg/m ³ TWA as Sb	0.5 mg/m ³ TWA as Sb	0.5 mg/m ³ TWA as Sb	
**Lead chromate (7758-97-6)	0.005 mg/m ³ as Cr(VI)	0.05 mg/m ³ as Pb 0.012 mg/m ³ as Cr	0.0002 mg/m ³ as Cr	OSHA and NIOSH see Chromium (VI) Compounds, inorganic, insoluble

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

* Used only in FRLTC or FRLTA products

** May be used only in those colors cited in Section 3

Potential byproducts from thermal processing/overheating:

	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	COMMENTS
Hydrogen Chloride (7647-01-0)	5 ppm (7 mg/m ³) Ceiling	2 ppm (2.98 mg/m ³) Ceiling	5 ppm (7 mg/m ³) Ceiling	The odor threshold for HCl is 0.25 ppm
Carbon Monoxide (630-08-0)	50 ppm (55 mg/m ³) TWA	25 ppm (29 mg/m ³) TWA	35 ppm (40 mg/m ³) TWA; 200 ppm (229 mg/m ³) 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 K_{ow}: NA | Auto-Ignition Temp.: Not determined |
| 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:

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: PVC Resin (9002-86-2):
IARC: Group 3 – Not Classifiable (Vol. 19, Suppl. 7, 1987)

Folpet (133-07-3):
EPA: B2 – Probable Human Carcinogen (sufficient evidence from animal studies; inadequate evidence or no data from epidemiologic studies)

IF USED: Antimony Trioxide (1309-64-4):
IARC: Group 2B – Possibly Carcinogenic to Humans (Vol. 47, 1989)
ACGIH: A2 – Suspected Human Carcinogen

IF USED: Lead Chromate (7758-97-6):
IARC: Group 1 – Carcinogenic to Humans (for Cr(VI) inhalation) (Vol. 49, 1990); Group 2A – Probably Carcinogenic to Humans (for Pb) (Vol. 87, 2006)
ACGIH: A2 – Suspected human carcinogen
NTP: Known Carcinogen (for Cr(VI))

CHRONIC TOXICITY

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 NO Chronic NO EHS NO
Physical: Fire NO Reactivity NO Pressure NO

SARA 313 (TRI):	This product is considered an "article" under SARA Title III Section 313 and is not subject to reporting under normal conditions of use.
CPSIA:	Where "CPSIA" appears in product description, product contains no components regulated under the U.S. Consumer Products Safety Improvement Act
California Proposition 65:	WARNING: This material contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. FOR CPSIA COMPLIANT PRODUCTS ONLY: WARNING: This material contains chemicals known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

The data in this Article Information 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.



Innovative Customer Solutions through Fiber and Polymer Technology

1000 VENTURE BLVD. ▪ WOOSTER, OHIO 44691
PHONE: (330) 262-1111 ▪ FAX: (330) 263-6950 ▪ www.seamancorp.com