



# Material Safety Data Sheet

## Style 80 Roofing Membranes

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 MSDS is provided on a voluntary basis to provide additional information to customers.

Rev. Date: 10 Oct 2014

### SECTION 1. IDENTIFICATION

**Product Name:** Style 80 Roofing Membranes  
**Trade Names:** Style 80, Style 80M, Style 80 FB, Style 80M FB  
**Recommended Use:** Roofing/waterproofing

**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.

### 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.

<u>Regulated Components</u>	<u>CAS No.</u>	<u>Weight %</u>
Titanium Dioxide	13463-67-7	0-15%
Antimony Trioxide	1309-64-4	<5%
Folpet	133-07-3	<1%
<u>Major Components</u>	<u>CAS No.</u>	
Nylon or Polyester fabric	NA	
PVC Resin	9002-86-2	
Ketone Ethylene Ester copolymer	**	
Alkyl phthalate plasticizer	**	
Polyester non-woven fleece (FB products only)	NA	

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

### 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 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<sub>2</sub>, foam or dry chemical (CAUTION: CO<sub>2</sub> 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
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/m <sup>3</sup> TWA as Sb	0.5 mg/m <sup>3</sup> 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 (7 mg/m <sup>3</sup> ) Ceiling	2 ppm (2.98 mg/m <sup>3</sup> ) Ceiling	5 ppm (7 mg/m <sup>3</sup> ) Ceiling	The odor threshold for HCl is 0.25 ppm
Carbon Monoxide (630-08-0)	50 ppm (55 mg/m <sup>3</sup> ) TWA	25 ppm (29 mg/m <sup>3</sup> ) TWA	35 ppm (40 mg/m <sup>3</sup> ) TWA; 200 ppm (229 mg/m <sup>3</sup> ) Ceiling	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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

**SECTION 10. STABILITY AND REACTIVITY**

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

**SECTION 11. TOXICOLOGICAL INFORMATION**

**POTENTIAL HEALTH EFFECTS:**

<b>Summary:</b>	Smoke generated from heating or burning the product is the primary health effect.
<b>Inhalation:</b>	Irritation of the upper respiratory tract may occur from fumes and smoke generated during heating
<b>Skin Contact:</b>	Prolonged handling may cause mechanical irritation
<b>Eye Contact:</b>	Fumes from heating may cause irritation, redness, and burning
<b>Ingestion:</b>	Not an expected route of entry
<b>Target Organs:</b>	Lungs/respiratory tract, eyes

**ACUTE TOXICITY**

<b>General Information:</b>	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.
<b>Component Analysis:</b>	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**

<b>General Information:</b>	This product has not been evaluated by OSHA, NTP, ACGIH, or IARC. No specific data available.
<b>Component Analysis:</b>	PVC Resin (9002-86-2):

IARC: Group 3 – Not Classifiable (Vol. 19, Suppl. 7, 1987)  
Antimony Trioxide (1309-64-4):  
IARC: Group 2B – Possibly Carcinogenic to Humans (Vol. 47, 1989)  
ACGIH: A2 – Suspected Human Carcinogen  
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  
Folpet (133-07-3):  
EPA: B2 – Probable Human Carcinogen (sufficient evidence from animal studies; inadequate evidence or no data from epidemiologic studies)

**CHRONIC TOXICITY**

No data is available on mutagenicity, reproductive effects, or developmental effects.

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**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.

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**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)

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**SECTION 14. TRANSPORTATION INFORMATION**

This product is not classified as hazardous for transportation.

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

California Proposition 65: **WARNING:** This material contains chemicals known to the State of California to cause cancer: Antimony Trioxide, Folpet.

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**SECTION 16. OTHER INFORMATION**

The data in this Material 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](mailto:msds@seamancorp.com) or call (330) 262-1111



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