

MATERIAL SAFETY DATA SHEET

For Coatings Resins and Related Materials

MSDS NUMBER MSDS FTR-101	ISSUE DATE 3/11/96	SUPERCEDES: All Previous	PREPARED BY: N/A
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Section I - Product & Company Identification

PRODUCT IDENTITY (as used on label and list): FTR-101 Sealant	
Manufacturer / Distributor	EMERGENCY PHONE NUMBER(S)
NAME: Seaman Corporation ADDRESS: 1000 Venture Blvd. ADDRESS: Wooster, OH 44691	DAY: 330-262-1111 NIGHT (CHEMTREC): 800-424-9300 INFORMATION: 330-262-1111
Trade Names or Synonyms: Sealant/Caulking CAS Number: None/Mixture D.O.T. Hazard Class: N/A Proper Shipping Name: Sealant/Adhesive	HMIS Hazard Codes: none: \longrightarrow extreme 0 \longrightarrow 4 Health: 2 Fire: 2 Reactivity: 0 Personal Protection: G

Section II - Hazardous Ingredients

Ingredients Material Description	Percent by Weight	C.A.S. Registry Number	LEL	VP
Titanium Dioxide	< 5	13463-67-7	N/A	N/A
Calcium oxide (lime)	1 to 5	1305-78-8	None	None
Talc (hydrous magnesium silicate)	1 to 5	14807-96-6	None	None
Aluminum sulfate (alum)	1 to 5	10043-01-3	None	None
Calcium carbonate (limestone)	10 to 30	1317-65-3	None	None
2, 4-Toluene diisocyanate*	< 0.1	584-84-9	1	< 1
Mineral spirits (Stoddard type)	5 to 10	8052-41-3	1	2

* Reportable under SARA Title III, Section 313

Section III - Physical Data

Boiling Range: 240-450° F	Freezing Point: No Data
Vapor Pressure: < 2mm Hg at 77° F	Vapor Density: Heavier than air
Evap. Rate Relative to n-butyl acetate: Slower	Water Soluble: Slight (<0.1%)
Spec. Gravity: 1.1	% Volatile by Volume: 6 to 8
Appearance: Smooth pigmented viscous liquid. Typical paint thinner odor	Odor Threshold: No Data

Section IV - Fire and Explosion Hazard Data

Flash Point: >200° F
Autoignition Temp: No Data
Explosive Limits: (%V in air)

OSHA Flammability Classification: Combustible Class III B
LEL: 0.9
UEL: 7.0

EXTINGUISHING MEDIA

Water Spray (Fog), Foam, Dry Chemical or Carbon Dioxide.

SPECIAL FIREFIGHTING PROCEDURES

Firefighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray. A water stream directed into the fire may cause frothing with subsequent spread of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode due to build up of pressure when exposed to heat. Thermal decomposition or combustion of product may generate irritating and/or toxic gases. Vapor is heavier than air and may travel along the ground or floor and be ignited at locations distant from the source.

Section V - Toxicological Information

Ingredient Material Description	PEL (mg/m3)	TLV STEL (mg/m3)	TLV (twa)		LD50 (mg/kg)		LC50 (ppm)
			(mg/m3)	ppm	Rat (oral)	Rabbit (dermal)	Rat inhal
Titanium dioxide	10*	N/A	10*	N/A	N/A	N/A	N/A
Calcium oxide (lime)	5*	Not Given	2*	N/A	N/A	N/A	N/A
Talc (hydrous magnesium silicate)	2*	Not Given	2*	N/A	N/A	N/A	N/A
Aluminum sulfate (alum)	15*, 5**	Not Listed	10*	N/L	N/L	N/L	No Data
Calcium carbonate (limestone)	15*, 5**	Not Listed	10*	N/L	N/L	N/L	No Data
2,4-toluene diisocyanate*	0.005 ppm	0.02 ppm	N/L	0.005	>5800	>1600	No Data
Mineral spirits (Stoddard type)	100 ppm	Not Listed	N/L	100	>5000	N/L	No Data

*Total Dust **Respirable Dust

Section VI - Health Hazard Data

Threshold Limit Values: See Section V

Acute Overexposure Information

Inhalation: Regard this product as a severe irritant. The product may contain trace amounts of an isocyanate. Exposure to a concentration of airborne isocyanates above TLV may produce irritation of the respiratory tract, coughing, chest discomfort, and shortness of breath. Individuals with a history of exposure to isocyanates can develop more severe symptoms, such as bronchitis, bronchial spasms, and pulmonary edema (fluid in the lungs). For most individuals these effects are reversible.

Eyes: Moderate irritant. May cause tearing, reddening of the eyes and reversible corneal injury.

Skin: Regard this product as a severe irritant. The product may contain trace amounts of an isocyanate, a class of compounds generally regarded as primary skin irritants. Contact with the product may cause dermatitis, allergic responses, and in sensitive individuals, redness, swelling, and blisters.

Ingestion: May cause irritation if swallowed.

Note: Pre-existing respiratory or skin condition(s) may be aggravated by exposure.

Section VI - Health Hazard Data (Continued)

Chronic Overexposure information:

1. This product does not contain dust as produced and does not generate dust in normal use. Dust generated by abnormal activities, such as sanding or grinding, could contain a small amount (<0.1%) of respirable silicone dioxide (quartz) dust. NTP and IARC have listed free respirable silica as a suspect human carcinogen. Prolonged and/or repeated overexposure to free respirable silica may cause silicosis or other delayed and serious lung injury. The dust could also contain particles of titanium dioxide, calcium oxide, talc, aluminum sulfate, and/or calcium carbonate. Chronic overexposure to dusts of these substances may cause delayed and serious lung injury.
2. This product may contain a small amount (< 0.1%) of toluene diisocyanate. NIOSH, NTP and IARC list toluene diisocyanate as a suspected carcinogen. Note also that prolonged or repeated exposure to isocyanates can lead to skin sensitization. For persons so sensitized, even brief exposures to the isocyanates can produce reddening, swelling, rash, or blisters. Similarly, prolonged and repeated exposures to isocyanates at levels well below the TLV can produce chemical asthma, and nonspecific asthmatic conditions.
3. No other known components of this product are listed as known or suspected carcinogens per NTP, IARC, or OSHA.
4. This product contains solvents. Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Solvents are also reported to cause liver damage, kidney damage, mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the contents (a process often called "sniffing") may be harmful or fatal.

Medical Conditions Generally Aggravated by Exposure: Any pre-existing respiratory or skin condition.

Emergency and First Aid Procedures:

Inhalation: Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen.

Administer artificial respiration if the victim is not breathing. Obtain immediate medical attention.

Skin: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. Wipe or flush affected skin with isopropyl alcohol (rubbing alcohol). Wash again thoroughly with soap and water. If irritation persists, seek medical attention.

Eyes: Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Obtain immediate medical attention.

Ingestion: Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

Section VII - Reactivity Data

Stability: Unstable Stable

Hazardous Polymerization: May occur Will not occur

This product contains an isocyanate. Contact with moisture or other materials that react with isocyanates may cause polymerization.

Incompatibility: Water, alcohols, amines, strong oxidants, strong bases and acids.

Conditions to Avoid: Contact with water vapor. Sources of ignition. Long term exposure to elevated temperatures.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, hydrogen cyanide gas, other acids and toxic fumes

Section VIII - Spill or Leak Procedures

Steps to Be Taken in Case Material is Released or Spilled:

Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Wipe up small spills with rags or towels. Put spent rags in loosely covered containers in a well ventilated area. Large spills should be handled carefully. Put on respiratory protection. Dike or impound spilled liquid. Cover the spill with absorbent compound (eg., vermiculite, clay, or sand). Use non-sparking tools to sweep or shovel into containers. Cover loosely and remove to a well-ventilated waste area. Repeat sorbent/sweep cycle until the spill has dried up. Rinse the spill area thoroughly with water. Flush the rinsings to the sanitary sewer or soak them up with absorbent material. Do not discharge undiluted product to the sanitary sewer or discharge the product or cleanup wastes to lakes, streams, ponds, or sewer. Avoid contact with eyes and skin.

Waste Disposal Method:

Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures. Do not incinerate closed containers.

Section IX - Special Protection Information

Respiratory Protection: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

Ventilation: Use local exhaust (e.g., open windows, fans) as needed to keep vapor/dust levels below recommended limits.

Protective Equipment: Wear gloves (Natural or butyl rubber, supported PVA, or nitrile. Avoid neoprene.), eye goggles, and clean protective clothing to cover arms and legs and keep exposure to a minimum.

Section X - Special Precautions

Precautions to be Taken in Handling and Storage:

DO NOT BREATHE VAPORS

AVOID CONTACT WITH EYES, CLOTHING, AND SKIN

KEEP CONTAINER CLOSED WHEN NOT IN USE

KEEP OUT OF REACH OF CHILDREN

DO NOT TAKE INTERNALLY

WEAR PROTECTIVE CLOTHING AT ALL TIMES

WASH THOROUGHLY AFTER USING

USE ONLY WITH ADEQUATE VENTILATION

Section XI - Regulatory Data

VOC CONTENT: 81.6 g/l excluding water and exempt compounds.

CALIFORNIA PROPOSITION 65:

The dust from this product may contain trace amounts of free respirable crystalline silicone dioxide, a substance listed by the state of California as known to cause cancer. This product may contain trace quantities (<0.1%) toluene diisocyanate which is listed by the state of California as known to cause cancer. Medium bronze (32-968) and Redwood (32-969) colors may contain trace quantities (<0.1%) of lead which is listed by the state of California as known to cause reproductive toxicity.

TRANSPORTATION:

	DOT	UN
HAZARD CLASS:	Not Regulated	Not Regulated
UN/NA NUMBER:	Not Regulated	Not Regulated
SHIPPING NAME:	Not Regulated	Not Regulated
PLACARD AT:	N/A	N/A
CLASS NUMBER:	N/A	Air: N/A Marine: N/A
SUBSID RISK:	N/A	Air: N/A Marine: N/A
PACKING GROUP:	N/A	Air: N/A Marine: N/A

REPORTING

CERCLA REPORTABLE QUANTITY: None

WASTE: None

SARA SECTION 304 EMERGENCY RESPONSE REPORTABLE QUANTITY: None

SARA SECTION 311/312 INVENTORY REPORTING (Y/N): Y

SARA SECTION 311/312 HAZARD CLASS (ES): Acute and chronic health hazard

SARA SECTION 313 ROUTINE RELEASE REPORTING CHEMICALS: None

COMPONENTS ON TSCA INVENTORY (Y/N): Y

DISPOSAL

EPA RCRA WASTE CLASS: Not Regulated

EPA RCRA WASTE NUMBER: Not Regulated

CALIFORNIA LIST LAND BAN (Y/N): Not Regulated

Section XII - Abbreviations Used

N/A= Information or Data Not Available.	OSHA= Occupational Safety and Health Administration
NTP= National Toxicology Program	PEL= Permissible Exposure Limit (8-hr. TWA) (OSHA)
IARC= International Agency for Research on Cancer	TLV= Threshold Limit Value (8-hr. TWA) (ACGIH)
NIOSH= National Institute of Occupational Safety and Health	STEL= Short Term Exposure Limit (15-min TWA) (OSHA)
ACGIH= American Conference of Governmental Industrial Hygienists	C= Ceiling Value

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