

MATERIAL SAFETY DATA SHEET

For Coatings Resins and Related Materials

MSDS NUMBER MSDS FTR-490	ISSUE DATE 5/23/06	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-490 Adhesive	
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: One Way Bonding Adhesive CAS Number: Mixture D.O.T. Hazard Class: Combustible Proper Shipping Name: Combustible Liquid, NOS Packing Group III	HMIS Hazard Codes: none: \longrightarrow extreme 0 \longrightarrow 4 Health: 2 Fire: 2 Reactivity: 0 Personal Protection: B UN #: NA1993

Section II - Hazardous Ingredients

Ingredients Material Description	Percent by Weight	C.A.S. Registry Number	Exposure Limits		
			ACGIH/TLV	OSHA/PEL	OSHA STEL
TITANIUM DIOXIDE	1 - 5 %	13463-67-7	N/est	N/est	N/est
TOLUENE	3 - 7 %	108-88-3	50.00 PPM	200.00 PPM	N/est
METHANOL	1 - 5 %	67-56-1	200.00 PPM	200.00 PPM	250.00 PPM

Section III - Physical Data

Boiling Range: 147° F	Vapor Density:
Evap. Rate: Faster than n-Butyl Acetate	Liquid Density:
Volatiles: VOL % N/A Wgt. % 45.11	Weight/Volume Measure: 8.97653
Appearance: White	Spec. Gravity: 1.078
EPA method 24 VOC: 152.9 g/L	Photo Chem Reactive Only VOC: 99.1 g/L

Section IV - Fire and Explosion Hazard Data

Flammability Class: II	Flash Range: 140° F	Explosive Range: 1.1-12.8%
EXTINGUISHING MEDIA		
Foam, dry chemical, carbon dioxide, water spray or fog.		
SPECIAL FIREFIGHTING PROCEDURES		
Avoid breathing smoke. Use air supplied rescue equipment for enclosed area. Water tends to spread burning liquid if large amounts are used.		
UNUSUAL FIRE AND EXPLOSION HAZARDS		
Flammable. Vapors may ignite explosively and/or cause flash fires. Eliminate sources of ignition. No smoking. Use adequate cross ventilation sufficient to remove odor of solvent and vapors. Electrically ground all containers during transfer.		

Section V - Toxicological Information

N/A

Section VI - Health Hazard Data

Permissible Exposure Level: See Section II

Effects of Overexposure

Inhalation: May cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heartbeats. Chronic effects of overexposure to solvent vapors could lead to permanent effects to the nervous system, body organs, and slight liver damage on excessive exposure. Use with adequate ventilation Can cause cardiac arrest and irregular heartbeats when inhaled in massive amounts as for euphoria.

Eyes: Irritation

Skin: Removal of skin oils, irritation, dermatitis, sensitization.

Ingestion: May be harmful if swallowed. Can cause gastrointestinal tract effects.

First Aid

Inhalation: Get fresh air, if necessary ,call a physician.

Skin: Wash with mild soap and water, apply a mild cream.

Eyes: Flush with water for at least 15 minutes.

Ingestion: Call poison center immediately.

Section VII - Reactivity Data

Stability: Unstable Stable

Hazardous Polymerization: May occur Will not occur

Incompatibility: Strong oxidizing agents. Strong acids and bases.

Conditions to Avoid: Fire, sparks, static electricity.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Section VIII - Spill or Leak Procedures

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

Keep spectators away. Eliminate all ignition sources (flames, hot surfaces) and sources of electrical, (static or friction) sparks. Dike and contain spill with inert materials, transfer liquid and inert absorber to covered metal containers for disposal. Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams and groundwater with spilled material or used absorbent.

Waste Disposal Method:

Dispose of in accordance with federal, state and local regulations.

Section IX - Special Protection Information

Respiratory Protection: If workplace exposure limit of product is exceeded, a NIOSH/MSHA approved air supplied respirator must be used in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL.

Protective Gloves: Chemical resistant gloves.

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised.

Other Protective Equipment: To prevent repeated, prolonged skin contact, wear impervious clothing and boots.

Section X - Special Precautions

Precautions to be Taken in Handling and Storage: Keep container closed when not in use. Store at 60 - 95 degrees F and out of sun. Use adequate ventilation to avoid breathing vapor when cover is removed. Ground all equipment when handling flammable solvent-borne materials.

Other Precautions: For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe fumes. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Close all containers when not in use. Empty containers must not be washed and re-used for any purpose. Contact lens wearers take appropriate precaution. Wash hands thoroughly after handling.

For spray application, use only with approved spray equipment.

For flammable products, vapors may cause flash fire or ignite explosively. To prevent buildup of vapors, use adequate ventilation (e.g. open all windows and doors to achieve cross-ventilation). Containers may be hazardous when empty. Never use welding or cutting torch on or near container.

Section XI - Regulatory Data

SARA Title III Section 313

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	Percent by Weight
108-88-3	Toluene	3 - 7 %
67-56-1	Methanol	1 - 5 %

PROP 65 (Teratogen)

Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

CAS#	Chemical Name	Percent by Weight
108-88-3	Toluene	3 - 7 %

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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