

MATERIAL SAFETY DATA SHEET

For Coatings Resins and Related Materials

MSDS NUMBER MSDS FTR-190e	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-190e Bonding 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: Low VOC Bonding Adhesive CAS Number: Mixture D.O.T. Hazard Class: Hazard Class 3 Proper Shipping Name: Adhesives Packing Group II	HMIS Hazard Codes: none: \longrightarrow extreme 0 \longrightarrow 4 Health: 2 Fire: 3 Reactivity: 1 Personal Protection: B UN #: UN1133

Section II - Hazardous Ingredients

Ingredients Material Description	Percent by Weight	C.A.S. Registry Number	TSCA	Exposure Limits		
				ACGIH/TLV	OSHA/PEL	ACGIH
METHYL ETHYL KETONE	1-5	78-93-3	Y	200.00 PPM	200.00 PPM	300.00 PPM
ACETONE	55-75	67-64-1	Y	500.00 PPM	1000.00 PPM	750.00 PPM
TOLUENE	1-5	108-88-3	Y	50.00 PPM	200.00 PPM	N/est

Section III - Physical Data

Boiling Range: 133° F	Vapor Density: Heavier than air
Evap. Rate: Faster than n-Butyl Acetate	Liquid Density: Lighter than water
% Volatile Weight: 74.8	Wgt. per gallon: 7.08 pounds
% Volatile Volume: N/A	Spec. Gravity: 0.85031
Appearance: Amber; typical odor	Photo Chem Reactive Only VOC: 53
EPA Method 24 VOC: 199.4 g/L	

Section IV - Fire and Explosion Hazard Data

Flammability Class: IB	Flash Point: 23° F	TOC LEL %: 1.2	UEL %: 10.0
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			
Extremely flammable. Vapors may ignite and/or cause flash fires. Eliminate sources of ignition. No smoking. Use adequate cross ventilation sufficient to remove odor of solvent or 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 nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headache, dizziness, nausea, and confusion.

Eyes: May cause severe eye irritation and corneal damage.

Skin: May cause dermatitis. May cause defatting and irritation of the skin.

Ingestion: Can cause gastrointestinal irritation, nausea and vomiting. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal.

First Aid

Inhalation: Move victim to fresh air. If breathing has stopped, give artificial respiration. Seek immediate medical attention.

Skin: Wash with mild soap and water for 15 minutes. If irritation persists consult a physician.

Eyes: Flush with water for at least 15 minutes and seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

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 frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). 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: Safety glasses. Face shield as necessary if spraying.

Other Protective Equipment: Barrier cream for sensitive skin.

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 applications, 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
78-93-3	Methyl Ethyl Ketone	1-5
108-88-3	Toluene	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	1-5

The following ingredients are registered for TSCA 12B

CAS#	Chemical Name	Percent by Weight
67-64-1	ACETONE	55 - 75

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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