

MATERIAL SAFETY DATA SHEET
POLYMERIC SYSTEMS, INC.
Wheatland and Mason Streets
Phoenixville, PA 19460
(215) 935-1170

Section 1. Product Identification and D.O.T. Requirements

PRODUCT NAME FASTSTEEL		PSI PART NO. 4-510-55
CUSTOMER PART NO. 1007	CHEMICAL NAME N/A	
CHEMICAL FAMILY Epoxy & polymercaptopan resins		FORMULA Mixture
TRANSPORTATION REQUIREMENTS (49CFR172-101)	D.O.T. HAZARD CLASS Not regulated	HAZARD I.D. NO. N/A
	D.O.T. PROPER SHIPPING NAME Not regulated	RC N/A

Section 2. Hazard Information

100% Ingredients	%	TOXICITY DATA	CAS NUMBER
2,4,6 - tri(dimethylaminomethyl) phenol	1	5 ppm 8-hr. TWA	90-72-2
Epoxy resin (diglycidyl ether of bisphenol A)	10	Oral LD ₅₀ (rbt) =	25068-38-6
Magnesium silicate	40	20 g/kg.	14807-96-6
Mercaptan Terminated polyether	10		Trade Secret
Amorphous silica	15		67762-90-7
Crystalline silica	4		14808-60-7
Iron alloy	20		Unknown

KNOWN HAZARDS UNDER 29 CFR 1910.1200						NFPA HAZARD RATING	
	YES	NO		YES	NO	HEALTH	FLAMMABILITY
COMBUSTIBLE LIQUID		X	EYE HAZARD		X	1	0
FLAMMABLE MATERIAL		X	TOXIC AGENT		X	0	
PYROPHORIC MATERIAL		X	HIGHLY TOXIC AGENT		X		
EXPLOSIVE MATERIAL		X	SENSITIZER (possible)	X			
UNSTABLE MATERIAL		X	CARCINOGEN		X		
WATER REACTIVE MATERIAL		X	REPRODUCTIVE TOXIN		X		
OXIDIZER		X	BLOOD TOXIN		X		
ORGANIC PEROXIDE		X	NERVOUS SYSTEM TOXIN		X		
CORROSIVE MATERIAL		X	LUNG TOXIN		X		
COMPRESSED GAS		X	LIVER TOXIN		X		
IRRITANT (possible)	X		KIDNEY TOXIN		X		
SKIN HAZARD		X	OTHER				

* 0 = LEAST 3 = HIGH
1 = SLIGHT 4 = EXTREME
2 = MODERATE

EPA HAZARDOUS WASTE ID NUMBER
N/A

EPA HAZARD WASTE CLASS
N/A

Section 3. Precaution for Safe Handling and Use

PROTECTIVE EQUIPMENT TYPES	EYES	Safety glasses
	RESPIRATORY	None required
	GLOVES	Polyethylene gloves for prolonged use
	OTHER	None required
VENTILATION	GENERAL MECHANICAL	None required
	LOCAL EXHAUST	Only if heated above 100° F (38° C)
PRECAUTIONS	HANDLING & STORAGE	Avoid eye contact and excessive skin contact
	OTHER	Wash with soap and water immediately after use.

Section 4. Emergency Response Data

FIRE	EXTINGUISHING MEDIA Water, spray, foam, CO ₂ , dry chemicals
	SPECIAL PROCEDURES None
	UNUSUAL HAZARDS CO, aldehydes, acids, oxides of sulfur & nitrogen may be formed
OVER EXPOSURE	FIRST AID MEASURES
	INHALATION: N/A
	INGESTION: Induce vomiting
	SKIN CONTACT: Wash with soap and water
	EYE CONTACT: Flush with water - consult physician
SPILLS OR LEAKS	STEPS TO BE TAKEN Dispose of in normal manner; not a potential pollutant
	WASTE DISPOSAL METHOD Incinerate in furnace or bury in landfill according to applicable regulations

Section 5. Health Hazard Data

PRIMARY ROUTES OF ENTRY:	INHALATION _____	SKIN CONTACT <u>X</u>	EYE CONTACT <u>X</u>
EFFECTS OF OVEREXPOSURE			
INHALATION:	None		
INGESTION:	N/A		
SKIN CONTACT:	Possible sensitizer		
EYE CONTACT:	Possible sensitizer		

Section 6. Reactivity Data

FLAMMABILITY	LEL = None	UEL = None	FLASHPOINT = None
STABILITY	STABLE	<input checked="" type="checkbox"/>	CONDITIONS TO AVOID None
	UNSTABLE	<input type="checkbox"/>	HAZARDOUS DECOMP PRODUCTS CO, aldehydes, acids, oxides of S and N
HAZARDOUS POLYMERIZATION	MAY OCCUR	<input type="checkbox"/>	CONDITIONS TO AVOID
	WILL NOT OCCUR	<input checked="" type="checkbox"/>	None
INCOMPATIBILITY	MATERIALS TO AVOID None		

Section 7. Physical Data

BOILING PT = N/A	PERCENT VOLATILES BY VOL = 0%	VOLATILE COMPONENTS
MELTING PT = N/A	SOLUBILITY IN WATER nil	N/A
VAPOR PRESSURE = nil	VAPOR DENSITY (AIR = 1) = N/A	PH = N/A
	SPECIFIC GRAVITY = 1.9	EVAPORATION RATE (BUTYL ACETATE = 1) = nil
APPEARANCE: putty-like	FORM: PASTE POWDER	
ODOR: mercaptan	<input checked="" type="radio"/> PUTTY SOLID LIQUID GAS	

PREPARED BY: Dr. Edward F. Cluff
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TITLE: Technical Director
DATE PREPARED: 5-15-90
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The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

N/A = Not applicable
N/E = Not evaluated