

MATERIAL SAFETY DATA SHEET

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I STRATA TECH INC
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DES MOINES, IA 50322
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PRODUCT: ST-524 POLY-FOAM INJECTION RESIN
(Part A of a Two-Part System)
FAMILY: Isocyanate Prepolymer
REV: March 30, 1999

II HAZARDOUS INGREDIENTS

	CAS	OSHA PEL	ACGIH TLV	CONCENTRATION
Diphenylmethane 4,4'-Diisocyanate (MDI)	26447-40-5	0.02 ppm	0.005 ppm	< 10.0%
Diphenylmethane Diisocyanate homopolymer	39310-05-9			< 3.0%
Triethyl Phosphate	78-40-0			< 0.2%

III PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State:	Liquid	Density:	9.0 lbs/gal
Boiling Point:	406 F (209 C)	45 lbs:	18.0 liters
Freezing Point:	<32 F (0 C) for MDI	pH:	ND
Vapor density:	8.5 (MDI) (Air=1)	Viscosity :	375 cps at 25 C
Solubility in Water:	Soluble; reacts with water	Volatile %	Nil
Specific Gravity:	1.1 at 77 F (25 C)		
Vapor Pressure:	< 0.00001 mm Hg at 77 F for MDI		
Appearance & Odor:	Pale amber color with sweet odor.		

IV FIRE AND EXPLOSION HAZARD DATA

Flash Point:	390 F (199 C) PMCC (ASTM D-93)
LEL:	Not established
UEL:	Not established
Ignition Temp:	Not established
Extinguishing Media:	CO2, dry chemical, chemical foam, sand
Fire Fighting:	Wear self-contained positive pressure breathing apparatus and full fire fighting clothing. Product reacts with water by foaming and liberation of carbon dioxide. Spray drums or cans near fire with water to minimize rupture risk.

V REACTIVITY DATA

Stability:	Stable under normal handling conditions
Conditions to avoid:	High humidity and temperature
Incompatibility:	Avoid water, alcohols, strong bases, and amines
Hazardous	
Polymerization:	May occur. Contact with moisture, materials which react with isocyanates, or temperatures above 400 F (204 C) may cause polymerization.
Hazardous	
Decomposition:	Products by heat and fire: CO, CO2, nitrogen oxides, sulfur oxides, HCN traces,

VI HEALTH HAZARD DATA *EFFECTS OF OVEREXPOSURE AND PRIMARY ROUTES OF ENTRY*

Eyes: Irritant
Skin: Moderate to severe irritation possible. May produce dermal sensitization
Ingestion: Do not ingest
Inhalation: Moderate to severe irritation possible. May cause sensitization.

VII EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush open eyes immediately with lukewarm water for 15 minutes; see Physician.
Skin: Remove contaminated clothing; wash with soap and water; apply skin cream.
Ingestion: Do not induce vomiting. Drink 2 cups milk or water if conscious. Contact a Physician.
Inhalation: Remove to fresh air. Give oxygen if breathing becomes difficult. See Physician.

VIII PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: React with ST-525 and water in open air and landfill resulting inert solid or cover with absorbent (vermiculite or sawdust), shovel into open waste container; decontaminate with solution of 93% water, 5% concentrated ammonia, and 2% detergent.
Disposal: Landfill decontaminated waste in accordance with Local, State, and Federal regulations.
Handling: Sensitive to humidity; close container tightly after use. Do not reseal empty container. Avoid open flames. Avoid eye and skin contact. Wash thoroughly after handling. Do not eat or smoke while using.
Storage: Below 120 F in tightly closed container to prevent atmospheric moisture Contamination. Do not reseal contaminated container.

IX CONTROL MEASURES

General: No special control measures at ambient conditions where work area is adequately ventilated. When airborne concentrations exceed the Federal OSHA exposure standard (0.02 ppm TLV), wear MSHA/NIOSH approved respirator.
Ventilation: As required to maintain work area below TLV.
Respiratory: If ventilation is insufficient, wear breathing apparatus or vapor respirator.
Eyes: Chemical goggles or full face shield as required.
Skin: Rubber gloves and clean body-covering clothing.

X SHIPPING AND LABEL DATA

DOT Shipping Name: Plastic Resin Compound
Hazard Class: N/A
Labels / Placards: ST-524 not regulated as a DOT hazardous material

	<u>IATA CARGO</u>	<u>PASSENGER</u>	<u>NFPA 704M RATINGS</u>	<u>HMIS RATINGS</u>	<u>CATEGORY</u>	<u>NFPA</u>	<u>HMIS</u>
UN #:	N/A	N/A	0= Insignificant	0= Minimal	Health	3	3
Limit:	N/A	N/A	1= Slight	1= Slight	Flammability:	1	1
Class:	N/A	N/A	2= Moderate	2= Moderate	Reactivity:	1	1
Instr:	N/A	N/A	3= High	3= Serious	Other:	-	-
			4= Extreme	4= Severe			