MATERIAL SAFETY DATA SHEET

Back to Urethane Grouts

I

STRATA TECH INC
3601 104th STREET
DES MOINES, IA 50322
INFO PHONE (515) 251-7770

PRODUCT: **STRATATHANE ST-504**
VARI-LOC INJECTION RESIN
FAMILY: Isocyanate Prepolymer
REV: January 1, 2000

II HAZARDOUS INGREDIENTS

	CAS	OSHA PEL	ACGIH TLV	CONCEN-TRATION
Diisobutyl Phthalate	84-69-5			< 10.0%
Dimethyl Glutarate	1119-40-0			< 6.0%
Diphenylmethane 4,4'-Diisocyanate (MDI)	101-68-8			< 5.0%
Higher Oligomers of MDI	9016-87-9			< 6.0%
Dimethyl Adipate	627-93-0			< 2.0%
Dimethyl Succinate	106-65-0			< 3.0%

III PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State:	Liquid	Density:	9.163 lbs/gal
Boiling Point:	Not Determined	45 lbs net:	18.56 liters
Freezing Point:	Below 32˚F (0˚C) for MDI	8 lbs net:	3.43 liters
Vapor density:	8.5 (MDI) (Air=1)	Viscosity :	
Specific Gravity:	1.1 at 77˚F (25˚C)	Volatile %:	Negligible
Vapor Pressure:	< 1 x 10^{-5} mm Hg at 77˚F (25˚C) for MDI		
Appearance & Odor:	Brown liquid; sweet odor.		
Solubility in Water:	Soluble. Reacts with water to liberate CO_2 gas.		

IV FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>212˚F (100˚C)
Extinguishing Media:	Dry chemical, carbon dioxide, foam, water spray for large fires.
Fire Fighting:	Wear self-contained positive pressure breathing apparatus and full fire fighting clothing. Vapors & other irritating highly toxic gases may be generated by thermal decomposition or combustion. At temperatures greater than 400˚F, isocyanates can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible. Use cold water to cool fire-exposed containers.

V REACTIVITY DATA

Stability:	Stable under normal handling conditions.
Incompatibilities:	Water, amines, strong bases, alcohols. Will corrode to copper alloys and aluminum.
Hazardous Polymerization:	May occur; avoid temperature above 400˚F (204˚C), avoid contact with moisture or other materials which react with isocyanates.
Hazardous Decomposition:	By heat and fire: carbon monoxide, oxides of nitrogen, traces of HCN, MDI and TDI vapors or aerosols.

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

Eyes:	Irritating causing tearing, reddening and swelling. If untreated, corneal damage can occur and injury is slow to heal.
Skin:	May cause some irritation such as reddening, swelling, rash, scaling or blistering.
Ingestion:	Can result in sore throat, abdominal pain, nausea, vomiting and diarrhea.
Inhalation:	Burning in nose, throat and lungs causing breathing difficulty; possible asthma attack, bronchitis, bronchial spasm, pulmonary edema and chemical or hypersensitive pneumonitis.

VII EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush open eyes immediately with lukewarm water for 15 minutes; see Physician.
Skin:	Remove contaminated clothing; wash thoroughly, wash with soap & water. Contact physician.
Ingestion:	**Do not induce vomiting**. Give 2 cups of milk or water to drink. Contact Physician immediately.
Inhalation:	Remove to fresh air. Give oxygen if breathing becomes difficult. See Physician.

VIII PRECAUTIONS FOR SAFE HANDLING AND USE

Spills:	Evacuate and ventilate spill area; dike spill; blanket with protein foam; pumped into closed but not sealed containers; absorb isocyanates with sawdust or other absorbent, shovel into suitable unsealed containers, transport outside and treat with large amounts of water, let stand uncovered for 48 hours; decontaminate floor with water.
Disposal:	Incinerate or landfill waste in accordance with Local, State, and Federal regulations.
Handling:	Sensitive to humidity; close container tightly after use. Do not reseal - can be contaminated by moisture. Avoid eye and skin contact. Wash thoroughly after handling. Remove contaminated clothing immediately and launder completely or discard.
Storage:	Stored between 64˚F and 86˚F. Shelf life is 6 months. If exposed to high heat, 400˚F (204˚C) container may become pressurized and possibly rupture.

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:	Liquid chemical goggles, vapor resistant goggles or full face shield as required.
Skin:	Permeation resistant gloves and clean body-covering clothing.

X SHIPPING AND LABEL DATA

DOT Shipping Name: Plastic Material, Liquid, NOS Hazard Class: N/A
Labels / Placards: ST-504 not regulated as a USDOT hazardous material

IATA	CARGO	PASSENGER	NFPA 704M RATINGS	HMIS RATINGS	CATEGORY	NFPA	HMIS
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			