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

PRODUCT: **ST-504 VARI-LOK** FAMILY: Isocyanate Prepolymer REV: May 19, 2014

II	HAZARDOUS INGREDIENTS	ITS		ACGIH	CONCEN-	
		CAS	PEL	TLV	TRATION	
	Diphenylmethane 4,4'-Diisocyanate (MDI)	101-68-8			< 5.0%	
	Higher Oligomers of MDI 901				< 6.0%	
	Dimethyl Adipate	627-93-0			< 4.0%	
	Dimethyl Succinate	106-65-0			< 6.0%	
	Mixed Isomers					
	2,4 Toluene Diisocyanate (TDI)				< 1%	
	2,6- Toluene Diisocyanate (TDI)	91-08-7				
	OSHA: . 02 ppm Ceiling					

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 : 800-900 at 77°F (25°C)		
Specific Gravity:	1.1 at 77F (25C)	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 CO2 gas.			

IV FIRE AND EXPLOSION HAZARD DATA

Flash Point:>212F (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 400F (204C), 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 64F and 86F. Shelf life is 6 months. If exposed to high heat, 400F (204C) container may become pressurized and possibly rupture.

IX CONTROL MEASURES

General: No special control measures at ambient conditions where work area is adequate	
	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 <u>cargo</u>	PASSENGER	NFPA 704M RATINGS	HMIS RATINGS	CATEGORY	<u>NFPA</u>	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			

STRATATHANE ST-504 VARI-LOK INJECTION RESIN