

MATERIAL SAFETY DATA SHEET

Back to Urethane Grouts

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

