

# MATERIAL SAFETY DATA SHEET

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**I** STRATA TECH INC  
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PRODUCT: **STRATATHANE ST-537**  
**POLY-ROK VOID STABILIZER (B)**  
FAMILY: Urethane Prepolymer Resin  
APPROVAL: January 1, 2000

## **II HAZARDOUS INGREDIENTS**

	CAS	OSHA PEL	ACGIH TLV	CONCENTRATION
Diphenylmethane 4,4'-Diisocyanate (MDI)	000101-68-8			< 45.0%
Higher Oligomers of MDI	9016-87-9			< 55.0%
Diphenylmethane Diisocyanate	26447-40-5			< 10.0%

## **III PHYSICAL AND CHEMICAL CHARACTERISTICS**

Physical State:	Liquid	Density:	10.3 lbs/gal
Boiling Point:	392°F (200°C)	45 lbs:	4.37 GAL (16.5L)
Freezing Point:	Below 32°F (0°) for MDI	pH:	ND
Vapor density:	8.5 (MDI) (Air=1)	Viscosity :	200 mpa (200 cps) at 25 C
Solubility in Water:	Insoluble; reacts with water	Volatile %:	Nil
Specific Gravity:	1.24 at 77°F (25°C)	Molecular Weight:	About 350
Vapor Pressure:	0.0001 mbar at 25 C		
Appearance & Odor:	Brown liquid with musty odor.		

## **IV FIRE AND EXPLOSION HAZARD DATA**

Flash Point:	390.0°F (198.8°C) PMCC (ASTMD-93)	
Ignition Temp:	400 C	LEL: Not established
Thermal Decomp:	260 C	UEL: Not established
Extinguishing Media:	CO2, dry chemical, foam, water spray for large fires.	
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 near fire with water to minimize rupture risk.	

## **V REACTIVITY DATA**

Stability:	Stable under normal handling conditions
Conditions to avoid:	High humidity
Incompatibility:	Avoid alcohol, strong bases, amines, water.
Hazardous Polymerization:	May occur. Contact with moisture, other materials which react with isocyanates or temperatures above 400 F (204 C), may cause polymerization.
Hazardous Decomposition:	Carbon Monoxide, oxides of nitrogen, traces of HCN, MDI vapors or aerosols.

## **VI HEALTH HAZARD DATA**

*EFFECTS OF OVEREXPOSURE AND PRIMARY ROUTES OF ENTRY*

Eyes:	Irritant causing tearing, reddening and swelling.
Skin:	Irritant causing reddening, swelling, rash, scaling or blistering.

Ingestion: Irritation and corrosive action in the mouth, stomach tissue and digestive tract, sore throat, Abdominal pain, nausea, vomiting and diarrhea.  
 Inhalation: Irritating to respiratory system. May cause sensitization by inhalation. LC50 (Inhalation, rat, 4 h) 0.37 mg/1 (aerosol).

**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; see Physician.  
 Ingestion: Do not induce vomiting. Contact a Physician.  
 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. Wear protective equipment, including respiratory equipment during clean up. Absorb isocyanates with sawdust or other absorbent, shovel into suitable unsealed containers, move to well ventilated area (outside) and treat with neutralizing solution.  
 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. Remove contaminated clothing immediately and launder completely or discard.  
 Storage: Containers should be stored between 64 deg. F and 86 deg. F. The shelf life for this product is 6 months. If container is exposed to high heat, 400 deg. F (204 deg. C) it can become pressurized and possibly rupture.

**IX CONTROL MEASURES**

General: No special control measures at ambient conditions in work area 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 or full face shield as required.  
 Skin: Rubber gloves and clean body-covering clothing.

**X SHIPPING AND LABEL DATA**

DOT Shipping Name: Diphenylmethane Diisocyanate Solution  
 Hazard Class:  
 Labels / Placards: ST-537 is not regulated as a DOT hazardous material

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