

MATERIAL SAFETY DATA SHEET

[Back to Urethane Grouts](#)

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PRODUCT: **STRATATHANE ST-530 QUIK-ROK**

FAMILY: Polymeric diphenylmethane diisocyanate
REV: January 1, 2000

II HAZARDOUS INGREDIENTS

	CAS	OSHA PEL	ACGIH TLV	CONCENTRATION
Diisobutyl Phthalate	84-69-5			< 50.0%
4,4' Diphenylmethane Diisocyanate	000101-68-8			< 21.0%
Higher Oligomers of MDI	9016-87-9			< 25.0%
Diphenylmethane Diisocyanate	26447-40-5			< 5.0%

III PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State:	Liquid	Density:	9.4 lbs/gal
Boiling Point:	392°F (200°C)		
Freezing Point:	Below 32°F (0°C) for MDI	pH:	ND
Vapor density:	8.5 (MDI (Air=1))	Viscosity :	
Solubility in Water:	Insoluble; reacts slowly with water	Volatile %:	Nil
Specific Gravity:	1.13 at 77°F (25°C)	Molecular Weight:	About 350
Vapor Pressure:	Less than 1 X 10 ⁻⁵ MM Hg at 77°F (25°C) for MDI		
Appearance & Odor:	Brown liquid, with musty odor.		

IV FIRE AND EXPLOSION HAZARD DATA

Flash Point:	390.0°F (198.8°C)(ASTM D-93)		
Ignition Temp:	Not established	LEL:	Not established
Thermal Decomp:	Not established	UEL:	Not established
Extinguishing Media:	Dry chemical, carbon dioxide, foam, water spray for large fires		
Fire Fighting:	Wear self-contained positive pressure breathing apparatus & full fire fighting clothing. At temps greater than 400 deg F, polymeric MDI can polymerize & 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
Incompatibility:	Water, amines, strong bases, alcohols. Will cause some corrosion to copper & aluminum
Hazardous Polymerization:	May occur. Avoid temperatures above 400°F, high humidity, contact with moisture.
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, can cause tearing, reddening and swelling
Skin:	Irritation: reddening, swelling, rash, scaling or blistering
Ingestion:	Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract.
Inhalation:	Irritating to respiratory system. May cause sensitization by inhalation. The 4 hour LC50 for diphenylmethane diisocyanate aerosols is 370 mg/m ³ .

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. Give 1 to 2 cups of milk or water to drink. Consult a physician.
Inhalation: Remove to fresh air. Give oxygen if breathing becomes difficult. See Physician.

VIII PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: Wear full protective equipment, including respiratory equipment during clean up. Cover with loose absorbent material such as sand, vermiculite, or sawdust. Neutralize with 80/20/90 water, isopropyl alcohol, and concentrated ammonia solutions prior to disposal. Allow to stand uncovered for 48 hours.
Disposal: Incinerate or landfill decontaminated waste in accord with Local, State, and Federal regulations.
Handling: Sensitive to humidity; close container tightly after use. Avoid sparks and open flames. Avoid eye and skin contact. Wash thoroughly after handling. Remove contaminated clothing and launder completely or discard.
Storage: Between 64°F and 86°F. If exposed to high heat, 400°F (204°C) it can become pressurized and possibly rupture. Shelf life is 6 months.

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 or full face shield as required.
Skin: Permeation resistant gloves and clean body-covering clothing.

X SHIPPING AND LABEL DATA

DOT Shipping Name: Diphenylmethane Diisocyanate Solution

Hazard Class:

Labels / Placards: ST-530 not regulated as a DOT hazardous material

IATA	<u>CARGO</u>	<u>PASSENGER</u>	<u>NEPA 704M RATINGS</u>	<u>HMIS RATINGS</u>	<u>CATEGORY</u>	<u>NEPA</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:	-	-