

MATERIAL SAFETY DATA SHEET

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

PRODUCT: **STRATATHANE ST-512**
VARI-GEL INJECTION RESIN
FAMILY: Isocyanate Prepolymer
REV: January 30, 2000

II HAZARDOUS INGREDIENTS

| | CAS | OSHA PEL | ACGIH TLV | CONCENTRATION |
|---|-----------|----------|-----------|---------------|
| Diisobutyl Phthalate | 84-69-5 | | | < 30.0% |
| Dimethyl Glutarate | 1119-40-0 | | | < 12.0% |
| 4,4'-Diphenylmethane Diisocyanate (MDI) | 101-68-8 | | | < 8.0% |
| 2,4-Toluene Diisocyanate (TDI) | 584-84-9 | | | < 3.5% |
| 2,6-Toluene Diisocyanate (TDI) | 91-08-7 | | | < 2.0% |
| Dimethyl Adipate | 627-93-0 | | | < 4.0% |
| Dimethyl Succinate | 106-65-0 | | | < 2.0% |

III PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State: Liquid Density: 9.1 lbs/gal
Boiling Point: 406°F (209°C) 45 lbs:
Freezing Point: Below 32°F (0°C) for MDI pH: Not Determined
Vapor density: 8.5 (MDI)(Air=1) Volatile %: Negligible
Solubility in Water: Soluble, reacts with water to liberate CO₂ gas
Specific Gravity: 1.1 at 77°F (25°C)
Molecular Weight: Mixture
Decomposition
Temperature: ND
Vapor Pressure: Less than 1 x 10⁻⁵ mm Hg at 77°F (25°C) for MDI, 3 x 10⁻⁴ mm Hg for TDI
Appearance & Odor: Light yellow liquid with sweet odor.

IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: 390°F (199°C) PMCC (ASTM D-93)
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. Explosive rupture is possible. Use cold water to cool fire-exposed containers.

V REACTIVITY DATA

Stability: Stable under normal handling conditions.
Conditions to Avoid: Moisture or temperature above 400°F (204°C).
Incompatibility: Avoid water, amines, strong bases and alcohols. Will cause some corrosion to copper alloys and aluminum.
Hazardous
Polymerization: May occur. Contact with moisture, other materials which react with isocyanates or temperatures above 400 deg. F (204 deg. C) may cause polymerization.
Hazardous
Decomposition: By heat & fire: Carbon monoxide, oxides of nitrogen, trace HCN, MDI vapors/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: Irritation causing reddening, swelling, rash, scaling or blistering & can cause skin sensitization.
 Ingestion: Irritation causing sore throat, abdominal pain, nausea, vomiting and diarrhea.
 Inhalation: Irritating to respiratory system. May cause sensitization by inhalation.

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.
 Ingestion: Do not induce vomiting, give 1 to 2 cups of milk or water . 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 & ventilate area. React with water in open air and landfill resulting inert solid or cover with absorbent material (vermiculite, sawdust or sand), shovel to open unsealed waste container; wash area with large amounts of hot water.
 Disposal: Incinerate or landfill decontaminated waste in accordance with Local, State, and Federal reg's.
 Handling: Sensitive to humidity; close container tightly after use. Avoid open flames. Avoid eye and skin contact. Wash thoroughly after handling. Remove contaminated clothing immediately and wash completely or discard.
 Storage: Between 64°F and 86°F. Do not reuse opened containers.

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: Chemical goggles or full face shield as required.
 Skin: Butyl rubber gloves and clean body-covering clothing.

X SHIPPING AND LABEL DATA

DOT Shipping Name: Plastic Resin Compound

Hazard Class:

Labels / Placards: ST-512 not regulated as a DOT hazardous material

| IATA | CARGO | PASSENGER | NFPA 704M RATINGS | HMS RATINGS | CATEGORY | NFPA | HMS |
|--------|-------|-----------|-------------------|-------------|---------------|------|-----|
| 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 | | | |