

MATERIAL SAFETY DATA SHEET

H 3 1 R B
 from Mike
HEALTH: 3
FLAMMABILITY: 1
REACTIVITY: 1

STRATA TECH INC
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Product : Stratathane ST-520 Injection Resin
 Family : Urethane Prepolymer Resin
 Formula : Polymeric
 Date : January 1, 1993

I HAZARDOUS INGREDIENTS

Urethane Prepolymer : 85% - 86% CAS 9042-77-7
 Acetone : 14% - 15% CAS 67-64-1
 Toluene Diisocyanate (Free) : < - 1% CAS 584-84-9

II PHYSICAL DATA

Physical State : Liquid Boiling Point : 135 F
 Density : 1.11 G/CC Vapor Pressure : 180 mm Hg
 Vapor Density (air=1) : 2.00 Viscosity at 25 C : 250 cps approx.
 Solubility in Water : Insoluble
 Specific Gravity : 1.12 (60/60) pH :
 Percent Volatility : 14% approx.
 Appearance and Odor : light yellow colored; aromatic odor.

III FIRE AND EXPLOSION HAZARD DATA

Flash Point : 153.0 F, Open Cup, ASTM D 3143
 Flammable Limits : LEL/UEL not determined

Extinguishing Media : CO2, dry chemical, foam, sand.
 Fire Fighting Procedure: Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing. See also VII "Special Protection". Reacts with water by foaming and liberation of carbon dioxide. Drums or cans involved in a fire but not themselves on fire should be sprayed with water to minimize rupture risk.

IV HEALTH HAZARD DATA

Effects of Over-exposure / Primary Routes of Entry

Eyes : Irritant
 Skin : Moderate to severe irritation possible. May produce dermal sensitization.
 Ingestion : Oral LD50 (rat) 5800 mg/kg.
 Inhalation : Irritating to respiratory system. May cause sensitization by inhalation. LC50 (inhalation, rat, 6 hour) 0.6 mg/l.

Emergency and First Aid Procedures

Eyes : Flush immediately with plenty of water for 15 minutes. See a Physician.
 Skin : Remove contaminated clothing. Wash contact area with soap and water and use a skin cream.
 Ingestion : Do not induce vomiting. Call a Physician.
 Inhalation : Remove to fresh air. Give oxygen if breathing becomes difficult. Contact a Physician.

V REACTIVITY DATA

Stability : Stable under normal handling conditions.
 Conditions to Avoid : High humidity and temperature.
 Incompatibility (Avoid) : Alcohol, amines, high heat.
 Hazardous Polymerization : may occur.

Hazardous Decomposition (Products) : Carbon Monoxide, Carbon Dioxide,
 - Hydrogen Cyanide (from combustion)

VI SPILL OR LEAK PROCEDURES

See Sections IV and VII. React with water in open air and landfill resulting inert solid, or cover with loose absorbent material such as sand, vermiculite, or sawdust. Shovel into waste container. Wash area with hot water. Landfill in accordance with applicable Local, State, and Federal regulations.

VII SPECIAL PROTECTION INFORMATION

Ventilation : As required to maintain work area below TLV.
 Respiratory : If ventilation is insufficient, wear self-contained breathing apparatus or respirator approved for use with organic vapor.
 Eyes : Chemical goggles or full face shield as required.
 Skin : Butyl Rubber gloves and clean body-covering clothing.

VIII SPECIAL PRECAUTIONS

Handling : Sensitive to humidity; close container tightly after use. Do not reseal empty container. Do not reuse empty container for any other purpose. Avoid heat, sparks, and open flame. Avoid eye and skin contact. Wash thoroughly after handling. Remove contaminated clothing immediately and launder completely or discard. Do not eat or smoke in use area.

Storage : below 80 F out of direct sun. Freezing may prolong the useful life of the product.

IX SHIPPING AND LABEL DATA

Shipping Name : Resin solution (resin compound, liquid)
 Flash point > 100 F, not containing vinyl chloride
 (Not considered hazardous when shipped by UPS.)
 Symbol : N/A

GVSee/IMCO Class : 3.3

HMIS Health :

Flammability :

Reactivity : 1

OSHA PEL :

EG NR :

UN NO : N/A

CAS # : 9042-77-7

ADNR :

ACGIH :

STEL :

DOT :