

MATERIAL SAFETY DATA SHEET

Quick Identifier (In Plant Common Name) : PT-120-200-620
Manufacturer's Name : FAI International, Incorporated.
Address : 1084 Essex Avenue, Richmond, CA 94801
Emergency Telephone Number : (510)232-0481
Date Revised : September 15, 1999

SECTION I — IDENTITY

PRODUCT NAME: PolyTech Spray & Froth A-Component
CHEMICAL NAME AND SYNONYMS: Polymethylene Polyphenylisocyanate
CHEMICAL FAMILY: Isocyanate
TRADE NAME AND SYNONYMS: Polymeric Diphenylmethane Diisocyanate

SECTION II — INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Polymeric Diphenylmethane Diisocyanate	80 -- 97	0.02 ppm TLV
Chlorodifluoromethane	3 -- 20	- not established -

SECTION III — PHYSICAL DATA

BOILING POINT : 392 °F 200 °C @ 5 mmHg
SPECIFIC GRAVITY (WATER = 1) : 1.2 @ 25 °C
VAPOR PRESSURE @ 77 F : <1 x 10(-5) mmHg
PERCENT VOLATILE BY WT. : NONE
EVAPORATION RATE : N/A
VAPOR DENSITY (AIR = 1) : 8.6
SOLUBILITY IN WATER : React with water
APPEARANCE AND ODOR : Brown viscous liquid

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : >400 °F
FLAMMABLE LIMITS (IN AIR % BY VOLUME) : N/A
EXTINGUISHER MEDIA : Carbon dioxide, dry chemical, foam.
Auto Ignition Temperature : N/A
Special Fire Fighting Procedures : Avoid water contamination in closed area due to carbon dioxide releases.
Unusual Fire And Explosion Hazards : Down-wind personnel must be evacuated. Do not reseal contaminated containers as pressure build-up may rupture them.

SECTION V — HEALTH HAZARD DATA

Threshold Limit Value : (MDI)0.02 ppm
Effect Of Overexposure : May lead to irritation of mucous membranes, tightness of chest respiratory tract, coughing, headache, shortness of breath. May lead to an allergic sensitivity in some people with asthma like symptoms.
Emergency And First Aid Procedures: Seek medical assistance for treatment, observation & support as needed.
Ingestion: Give water to drink to dilute, call physician at once.
Inhalation : Move to fresh air and administer oxygen if necessary, call physician.
Eye : Flush with water for 20 minutes, call physician.
Skin : Wash with soap and water for 10 minutes.

SECTION VI — REACTIVITY DATA

Stability : Avoid conditions with temperature above 120 °F. Do not incinerate, avoid open flame.
Material To Avoid : Alcohols, water, strong bases, metal compounds.
Hazardous Decomposition Products : 500 °F, CO, Benzene, Toluene, Oxides of Nitrogen, HCN, Acetaldehyde, Acetone.
Hazardous Polymerization : Will not occur.

SECTION VII — SPILL AND LEAK PROCEDURES

Specific Steps To Be Taken In Case Material Is Released Or Spilled : Provide ventilation, isolate area. Large spills requires the use of self contained breathing apparatus. The spill should be absorbed (vermiculite, sawdust, Fuller's earth). Pour liquid decontaminate (90% water, 8% Ammonium Hydroxide, 2% detergent) on spillage, allow to react for at least 10 minutes. Collect in open container or polyethylene sheet, and further decontaminate liquid. Remove container to safe place with loose cover

Specific Waste Disposal Method : Dispose of material in landfill according to Federal, State and local regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

Respiratory Protection : Self contained breathing apparatus
Local Exhaust : Keep fresh air circulating
Protective Gloves : Neoprene, butyl rubber, vinyl and polyethylene
Other Protective Clothing Or Equipment : PVC apron, safety shoe. Safety showers and eye wash should be available.
Eye Protection : Safety goggles or glasses

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SECTION I -- IDENTITY

PRODUCT NAME: PolyTech Spray & Froth B-Component
CHEMICAL NAME AND SYNONYMS: Polyurethane Resin Component
CHEMICAL FAMILY: Polyurethane Chemicals
FORMULA : Mixtures

SECTION II -- INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Polyurethane Polyols	40 -- 55	N.E.
Silicone Surfactants	1 -- 3	N.E.
Polyurethane Additive	2 -- 8	N.E.
Tertiary Amine Catalysts	2 -- 4	N.E.
Flame Retardant	20 -- 29	NONE
Chlorodifluoromethane	8 -- 18	8 hr. TWA 1000ppm

SECTION III -- PHYSICAL DATA

BOILING POINT : Fluorocarbon @ 1 atm °F 74.87
SPECIFIC GRAVITY (WATER = 1) : 1.1
VAPOR PRESSURE @ 77 F : 0.623 PSIG
PERCENT VOLATILE BY WT. : NONE
EVAPORATION RATE : N/A
VAPOR DENSITY (AIR = 1) : > 1
SOLUBILITY IN WATER : Partially Soluble
APPEARANCE AND ODOR : Brown viscous liquid

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : N/A
FLAMMABLE LIMITS (IN AIR % BY VOLUME) : N/A
EXTINGUISHER MEDIA : Water, Carbon dioxide foam.
Auto Ignition Temperature: N/A
Special Fire Fighting Procedures : Standard fireman's body protection and breathing apparatus.
Unusual Fire And Explosion Hazards : N/A

SECTION V -- HEALTH HAZARD DATA

Threshold Limit Value : 1000 ppm for fluorocarbon R-22
Effect Of Overexposure : Vapor may cause dizziness due to insufficient oxygen and may be irritant to respiratory tract.
Emergency And First Aid Procedures: Seek medical assistance for treatment, observation & support as needed.
Ingestion: Give water to drink to dilute, call physician at once.
Inhalation : Move to fresh air and administer oxygen if necessary, call physician.
Eye : Flush with water for 20 minutes, call physician.
Skin : Wash with soap and water for 10 minutes.

SECTION VI -- REACTIVITY DATA

Stability : Avoid conditions with temperature above 120 °F. Do not incinerate, avoid open flame.
Material To Avoid : Alkali & alkaline earth metals
Hazardous Decomposition Products : Carbon dioxide, nitrogen oxides, hydrocarbons
Hazardous Polymerization : Will not occur.

SECTION VII -- SPILL AND LEAK PROCEDURES

Specific Steps To Be Taken In Case Material Is Released Or Spilled : Provide ventilation, isolate area. Large spills absorbed with insert medium and place in covered containers. Scrap material may be mixed with Component A to produce an inert solid.
Specific Waste Disposal Method : Dispose of material in landfill according to Federal, State and local regulations.