

MATERIAL SAFETY DATA SHEET

Polyurethane 250 Part "A"

SECTION I

Product Identification and General Information

Product Name: Polyurethane 250 Part A Date Prepared: 11/10/2009

Product Class: Acrylic Polymer Solution 24 Hour Emergency Assistance: Chemtrec

HMIS Codes: H F R P 1-800-424-9300

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SECTION II

Hazardous IngredientsCAS#OSHA PELACGIH TLVMethyl Amyl Ketone110-43-0100ppm50ppmStyrene Acrylic PolymersProprietaryN/EN/E

SECTION III

Physical Data

Boiling Point: 280°F Solubility in Water: Slight Vapor Pressure: N/A Evaporation Rate: N/A

Vapor Density: Heavier Than Air Appearance: White to Yellow Liquid

Specific Gravity: 0.98 Odor: Solvent-Like

Percent Volatiles: 42

SECTION IV

Fire and Explosion Hazard Data

Flash Point: 100°F (PMCC)

Flammable Limits:

LEL: N/A UEL: N/A

Extinguishing media: Foam, CO2, Dry Chemical, Water Fog.

Hazardous Combustion Products: Produces normal products of combustion.

Special Fire Fighting Procedures: Wear full protective clothing including self-contained breathing

apparatus.

Fire and Explosion Hazards: Containers may explode in the heat of a fire.

SECTION V

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur. Incompatibility: Strong oxidizing agents.

SECTION VI

Health Hazard Data

Primary Route of Entry: Inhalation, Skin Contact, Eye

Eye Contact: Contact is severely irritating and can cause pain, tearing, redness and swelling. If left untreated, corneal damage can occur. Injury is slow to heal, but damage is usually reversible.

Skin Contact: Repeated or prolonged exposure may result in dry, defatted or cracked skin. Dermatitis and skin rash may occur. May penetrate skin.

Inhalation: Vapors are irritating to eyes, nose, throat and respiratory tract resulting in itchy eyes, dryness of the throat and tightness of the chest. Other possible symptoms include headache, nausea, narcosis, fatigue and loss of appetite.

Ingestion: Can result in the irritation of the digestive tract. Symptoms include sore throat, abdominal pain, nausea, vomiting and diarrhea.

SECTION VII

First Aid

Eyes: Flush with water for 15 minutes.

Skin: Remove contaminated clothing and wash affected areas with soap and water. Wash contaminated clothing before reuse.

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: Move to an area free from further exposure. Administer oxygen or artificial respiration as needed. Seek medical attention.

SECTION VIII

Special Protection Information

Respiratory Protection: A respirator approved for use in organic vapor containing environments.

Ventilation: Local exhaust ventilation is recommended.

Eye Protection: Liquid chemical goggles or full-face shield.

Skin Protection: Permeation resistant gloves (Butyl rubber or Nitrile rubber). Wear long sleeved and legged garments.

SECTION IX

Spill or Leak Procedures

Steps to be taken if material is released or spilled: Remove all sources of ignition. Ventilate area. Equip clean-up crew with appropriate protective gear. Dike spilled material and control further spillage if possible. Cover spill with absorbent material. Collect material in open containers. Flush spill area with water.

Waste Disposal Method: Waste disposal must be in accordance with federal, state and local regulations. Empty containers must be handled with care due to product residue and combustible solvent vapors.

SECTION X

Shipping Data

D.O.T. Shipping Name: Paint Related Material Technical Shipping Name: Acrylic Polymer Solution

D.O.T. Hazard Class: Flammable Liquid

UN/NA Number: UN1263

PG III

D.O.T. Labels Required: Flammable

Freight Class: 55



MATERIAL SAFETY DATA SHEET

Polyurethane 250 Part "B"

SECTION I

Product Identification and General Information

Product Name: Polyurethane 250 Part B Date Prepared: 11/10/2009

Product Class: Ester Solvent EEP 24 Hour Emergency Assistance: Chemtrec

HMIS Codes: H F R P 1-800-424-9300

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SECTION II

Hazardous IngredientsCAS#OSHA PELACGIH TLVHomopolymer of Hexamethylene Diisocyanate28182-81-2N/EN/E

Methyl Amyl Ketone 110-43-0 N/E N/E

SECTION III

Physical Data

Boiling Point: 350°F Solubility in Water: Insoluble, but reacts slowly

Vapor Pressure: 2.14mm Hg @ 20°C Evaporation Rate: N/A

Vapor Density: Heavier Than Air

Appearance: Pale Yellow Clear Liquid

Specific Gravity: .98 Odor: Pleasant, Sweet Odor

Percent Volatiles: 40

SECTION IV

Fire and Explosion Hazard Data

Flash Point: 122°F SETA Flash (ASTM D-3243)

Flammable Limits: LEL: 1.3 @ 173°F UEL: 13.1 @ 283°F

Extinguishing media: Foam, Dry Chemical, Carbon Dioxide. Do Not Use Water.

Hazardous Combustion Products: Oxides of Carbon and Nitrogen.

Special Fire Fighting Procedures: Firefighters should wear full emergency equipment with self-contained

breathing apparatus. During fires irritating, toxic gases and smoke may be present from

decomposition/combustion products.

Fire and Explosion Hazards: Product will burn under fire conditions. Toxic, corrosive fumes may be

emitted.

SECTION V

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility: Water, strong bases, strong acids, strong oxidizing agents and amines.

SECTION VI

Health Hazard Data

Primary Route of Entry: Inhalation, Dermal, Eye contact.

Skin Contact: Isocyanates react with skin protein and moisture and can cause irritation. Symptoms include reddening, swelling, rash, scaling and blistering. Cured material is difficult to remove. Inhalation: Inhalation of mist can irritate the mucous membrane in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort and shortness of breath. Acute exposure may lead to bronchitis, bronchial spasm or pulmonary edema. These effect are usually reversible.

Ingestion: Can result in irritation and possibly corrosive action in the mouth, stomach tissue and digestive tract.

Chronic Overexposure: May result in isocyanate sensitization.

SECTION VII

First Aid

Eyes: Flush eyes with clear water for 15 minutes. Refer individual to a physician for immediate follow-up. Skin: Remove contaminated clothing immediately. Wash affected areas with soap and water. Wash contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops or persists. Inhalation: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.

Ingestion: Do not induce vomiting. Give 1 to 2 cups of milk or water to drink. Do not give anything by mouth to an unconscious person. Consult physician.

Note To Physician: Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation frequently. Skin: This product is a known sensitizer. Treat symptomatically as for contact dematitus or thermal burn. Ingestion: Treat symptomatically no specific antidote. Inhalation: This product is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a sensitization reaction to this material must be removed from any further exposure to any isocyanate.

SECTION VIII

Special Protection Information

Respiratory Protection: A NIOSH approved respiratory for organic vapor should be used. In spray applications a supplied air respirator is recommended.

Ventilation: Possible use precautions as above.

Eye Protection: Chemical splash goggles or full face shield.

Skin Protection: Permeation resistant gloves. Cover as much of the exposed skin area as possible with appropriate clothing.

SECTION IX

Spill or Leak Procedures

Steps to be taken if material is released or spilled: Evacuate non-essential personnel. Remove all sources of ignition. Put on personal protective equipment. Dike spilled material and control further spillage. Pour decontamination solution over spill and allow to react for at least 10 min. Collect material in open containers and further amounts of decontamination solution. Wash down spill area with decontamination solution. Decontamination solutions: Concentrated (3.8%), detergent (2%) and water (90-95%) or Union Carbide's tergitol TMN-10 (20%) and water (80%)

PG III

Waste Disposal Method: Waste must be disposed of in accordance with all federal, state and local regulations. Incineration is preferred method. Empty containers will contain product residue. Decontaminate prior to disposal.

Shipping Data

D.O.T. Shipping Name: Paint Related Material Technical Shipping Name: Ester Solvent EEP D.O.T. Hazard Class: Flammable Liquid

UN/NA Number: UN1263

Reportable Quantity: None

D.O.T. Labels Required: Flammable

Freight Class: 55