

Polyaspartic Hardener

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Polyaspartic Hardener
SDS Number: 92B/85B/75B Hardener
Chemical Family: Polyisocyanate
Product Description: High Solids Polyaspartic Component "B"
Product Use: Floor Coatings

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Respiratory or skin sensitization, 1 Respiratory
 Environmental, Hazards to the aquatic environment - Acute, 2
 Health, Skin sensitization, 1
 Health, Acute toxicity, 4 Inhalation
 Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H334 - May cause allergy or asthma symptoms of breathing difficulties if inhaled
 H401 - Toxic to aquatic life
 H317 - May cause an allergic skin reaction
 H332 - Harmful if inhaled
 H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P241 - Use explosion-proof electrical/ventilating/light/equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P284 - Wear respiratory protection.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	% Chemical Name:	
98-56-6	6-28%	Benzene, 1-chloro-4-(trifluoromethyl)-
-40-7	3-15%	Proprietary
28182-81-2	65-85%	Hexane, 1,6-diisocyanato-, homopolymer
88917-22-0	0-15%	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate

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FIRST AID MEASURES

Inhalation:	Not considered dangerous. Treatment is symptomatic. An individual having a sensitization reaction should be removed from further exposure. Seek immediate medical attention
Skin Contact:	Remove contaminated clothing and wash before reuse.
Eye Contact:	Get immediate medical attention. Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision
Ingestion:	Drink large quantities of water. Do NOT induce vomiting or attempt chemical neutralization. Get prompt, qualified medical attention.

Most Important Symptom(s)/Effect(s)

Acute: Isocyanate Vapors or mist at concentrations above the exposure limits or guidelines can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) with symptoms of runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing difficulty). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the exposure limits or guidelines with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the exposure limits or guidelines may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible

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FIRE FIGHTING MEASURES

Flash Point: ND
Dry powder, foam, carbon dioxide. Water fog.

Special Firefighting Procedures: Wear self-contained breathing apparatus and protective clothing. Water spray is useful in cooling fire-exposed vessels and in dispersing vapors.

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ACCIDENTAL RELEASE MEASURES

Pick up excess with inert absorbant material and place into separate waste container.
Evacuate non-essential personel from area.
Keep away from drains and ground water.

Pour decontamination solution over spill and allow to react for at least 15 minutes. Collect material in open containers with further amounts of decontamination solution.

Decontamination solution: 20% Non-ionic surfactant (Tergitol TMN-10) with 80% Water

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HANDLING AND STORAGE

Handling Precautions: Keep material out of reach of children. Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Use approved containers only. Wash thoroughly after handling.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use local exhaust at filling zones and where leakage is probable.
Personal Protective Equipment: Chemical resistant gloves; Chemical safety glasses; Dust respirator; Exhaust ventilation; Respirator.

Hexamethylene Diisocyanate Polymer
Exposure Limits:

USA OSHA (TWA₅)/PEL): 5 mg/m³ 8 hours

ACGIH (TWA/TLV): 0.03 mg/m³ 8 hours

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid.	Odor:	Faint ethereal and sweetish odor.
Physical State:	Liquid	Solubility:	Insoluble in water. Reacts slowly with water to liberate CO ₂ gas.
Odor Threshold:	Not determined	Percent Volatile:	<25%
Spec Grav./Density:	1.07-1.09		

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	N/A
Hazardous Decomposition:	CO, CO ₂ , Oxides of Nitrogen, HCN, HDI by high Heat
Hazardous Polymerization:	May occur. Contact with moisture or other materials that react with isocyanates or temperatures over 400F may cause polymerization

Acute Toxicity:

Oral (LD 50): 2500 mg/kg (rat)

Inhalation (LC 50): 0.467 mg/l

Skin irritation: Isocyanates react with skin protein and moisture and can cause irritation. Symptoms include reddening, swelling, rash, scaling or blistering. Some may develop skin sensitization from skin contact. Cured material is difficult to remove. Repeated or prolonged contact can result in dry, defatted and cracked skin causing increased susceptibility to infection.

Eye irritation: Vapors are irritating and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal but usually reversible

Sensitization:

Chronic Toxicity: ND

Aquatic Toxicity: No data on the product itself. Based on the components, the product is acutely harmful for aquatic organisms.

Acute Toxicity to Fish: 100mg/l

Acute Toxicity to Aquatic Invertebrates: 127 mg/l

Not readily biodegradable

Dispose of in accordance with local regulations.

Not Regulated

Component (CAS#) [%] - CODES

Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6) [6-28%] TSCA

Proprietary (-40-7) [3-15%]

Hexane, 1,6-diisocyanato-, homopolymer (28182-81-2) [65-85%] TSCA

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities: None

U.S. - SARA - Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs: None

U.S. - CERCLA/SARA - Section 313 - Emissions Reporting: None

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing: None

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee.

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

This information only describes safety measures and no liability may arise from the use or application of the product described herein.

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Revision Date: [N/A]