



Material Safety Data Sheet

95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Dur-A-Glaze #5 Hardener

COMMON NAME Aliphatic Polyisocyanate

HAZARD RATING 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Health	2
	Flammability	1
	Reactivity	1
	Personal Protection	G

SECTION II - PRODUCT COMPONENTS

	CAS.#	OSHA PEL	ACGIH TLV
HDI based Polyisocyanate	Trade Secret	N.E. ¹	N.E.
Hexamethylene Diisocyanate	822-06-0	N.E.	0.005ppm

¹Not Established

T.S.C.A. Status - O.K. on all above components.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N.E.	Specific Gravity (H2O = 1)	>1
Vapor Pressure (mm Hg)	1.8 x 10 ⁻⁵	Melting Point	N.E.
Vapor Density (AIR = 1)	N.E.	Evaporation rate (Butyl Acetate = 1)	N.E.
Volatile Organic Compounds (VOC)	0 g/L		
Solubility in Water	NOT SOLUBLE.		
Appearance and Odor	Clear viscous liquid. Slight Odor.		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	>200F	Flammable Limits	LEL	UEL
			N.E.	N.E.

Extinguishing Media Dry Chemicals, CO2, Universal Type Foam.

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus. Waterspray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with H2O used for cooling purposes.

Unusual Fire and Explosion Hazards

Closed container may explode when exposed to extreme heat, or burst when contaminated with water.

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	x	Keep containers closed when not in use.
Incompatibility (Materials to Avoid) Water, amines, strong bases, alcohols, metals and surface active materials.			
Hazardous Decomposition or Byproducts Fire may yield CO, CO2, oxides of nitrogen and traces of HCN, HDI.			
Hazardous Polymerization	May Occur	x	Conditions to Avoid
	Will Not Occur		Keep containers closed when not in use.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Signs and Symptoms of Exposure Irritation and redness of skin and eyes. Breathing difficulty.

Health Hazards (Acute and Chronic)

ACUTE - prolonged skin exposure can cause irritation, dermatitis. Inhalation of vapors can cause nasal and respiratory irritation, dizziness, headache, nausea.

CHRONIC - prolonged or repeated exposure to vapors may cause liver and kidney damage. Lung disorders may aggravated by exposure.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Medical Conditions Generally Aggravated by Exposure

Asthma and other respiratory disorders, skin allergies, eczema

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.

Skin - remove contaminate clothing. Clean affected area with mild soap and water. If irritation or redness develops, seek medical attention.

INHALATION- move person away from source of exposure and into fresh air. If person is not breathing, give artificial respiration and seek medical attention immediately. If breathing difficulty develops, give oxygen and seek medical attention immediately.

****NOTE** PERSONS WITH LUNG DISORDERS OR WHO ARE SENSITIZED SHOULD NOT USE THIS PRODUCT.**

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type) Use NIOSH approved respirator as outlined in 30CFR11 and 29CFR 1910.134

effective for diisocyanate vapors. Use SCBA or air-supplied respirators when TLV/PEL is exceeded.

Ventilation	Local Exhaust	Use in confined areas.	Special	Explosion proof fans when needed.
	Mechanical	Must be sufficient to maintain area below established TLV/PEL.		

Protective Gloves Neoprene rubber gloves. **Eye Protection** Splash proof goggles.

Other Protective Clothing or Equipment

Use other protective equipment such as rubber aprons and a face shield if danger of splashing is possible.

Eye wash station or clear water must be readily available. ENFORCE GOOD HYGIENE PRACTICES.

Exposure to liquid, vapors, mists or fumes must be minimized. Use air supplied respirators in enclosed areas and when PEL/TLV is higher than established level.

Work/Hygienic Practices Launder contaminated clothing before use. Dispose contaminated leather shoes

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled

Shut off and eliminate all ignition sources. Keep people away. Add sand, earth or other absorbent to spill area. Ventilate confined spaces. Open windows and doors, minimize breathing vapors and skin contact. Keep spill out of sewers by diking.

Waste Disposal Method

Incineration in accordance with local, state, and federal regulations.

Precautions to be Taken in Handling and Storing

Keep containers tightly closed when not in use. DO NOT pressurize, cut, weld, solder, drill or grind the containers.

Other Precautions None Known.

Prepared by Samet Dy - Urethane Chemist

PLEASE NOTE *The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.*



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SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **Dur-A-Glaze #5 Resin**

COMMON NAME Aspartic ester polymer

HAZARD RATING	Health	2
0 = Least	Flammability	1
1 = Slight	Reactivity	0
2 = Moderate	Personal Protection	B
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS

AS CAS.#	OSHA PEL	ACGIH TLV
Aminofunctional Reactive Thinner	Proprietary	N.E. ¹
Proprietary diluent	Proprietary	N.E.

¹Not Established

T.S.C.A. Status - O.K. on all above components.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	212F	Specific Gravity (H2O = 1)	>1
Vapor Pressure (mm Hg)	NE	Melting Point	NE
Vapor Density (AIR = 1)	NE	Evaporation rate (Butyl Acetate = 1)	<1
Volatile Organic Compounds (VOC)	0 g/L		
Solubility in Water	Insoluble		
Appearance and Odor	Amber liquid. Slight odor.		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	>200F	Flammable Limits	LEL	UEL
			NE	NE

Extinguishing Media Water spray, Foam, CO2, Dry Chemicals.

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None Reported

SECTION V - REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Excess heating over long periods may degrade the resin.
Incompatibility (Materials to Avoid)	Oxidizing materials	
Hazardous Decomposition or Byproducts	By Fire - Carbon monoxide, Carbon dioxide, other aliphatic fragments.	
Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	X None known.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	YES	YES
Signs and Symptoms of Exposure	Irritation of skin.		
Health Hazards (Acute and Chronic)	ACUTE - Irritation of skin and dermatitis. Irritation to nasal passages, throat, dizziness and headaches. CHRONIC - None reported for this product. Effects are expected to be similar to those listed for acute human health effects.		
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Medical Conditions Generally Aggravated by Exposure

None known

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.

SKIN - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice if irritation develops or persists.

INHALATION - Move person to fresh air. If needed, give oxygen or artificial respiration to improve breathing. Consult physician.

INGESTION - Get medical attention immediately. Never give liquids to an unconscious or convulsing person. Do not induce vomiting.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Provide adequate exhaust ventilation; use a NIOSH approved respirator if PELs/TLVs are exceeded.

Ventilation	Local Exhaust	If needed.	Special	None known.
	Mechanical	Adequate exhaust ventilation must exhaust AWAY from applicator.		

Protective Gloves Impermeable gloves

Eye Protection Splash goggles or face shield.

Other Protective Clothing or Equipment

Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Launder contaminated clothing before reuse. Protective skin creams help cleaning with soap and water, gloves must still be worn.

An eye wash station or an adequate supply of clean water must be available at work area.

Work/Hygienic Practices Enforce careful handling to prevent splashing. Wash thoroughly after use.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled

Wear protective equipment to prevent exposure. Stop spill and dike to prevent spreading. Cover spill with absorbent materials and collect into containers. Clean contaminated area with detergent and water or a steam cleaner for best results.

Waste Disposal Method

Dispose in accordance with Federal, State and Local requirements.

Precautions to be Taken in Handling and Storing

Keep containers tightly closed when not in use.

Other Precautions NONE KNOWN.

Prepared by Samet Dy - Urethane Chemist

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