

**DUR-A-FLEX**
INNOVATION FROM THE FLOOR UP

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

**Material Safety
Data Sheet**

Date Prepared 8/2/2010

SECTION I - IDENTIFICATION	HAZARD RATING 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Health	3
		Flammability	3
		Reactivity	0
		Personal Protection	G
IDENTITY (As Used on Label)		Dur-A-Shield II Hardener	
COMMON NAME		Epoxy Hardener Solution	

SECTION II - PRODUCT COMPONENTS	CAS.#	OSHA PEL	ACGIH TLV
Xylene ¹	1330-20-7	100ppm	100ppm
Propylene Glycol Monomethyl Ether	107-98-2	N.E.	100ppm
C18 Unsaturated Dimer Acids, Reaction product			
with Polyethylene polyamines	68410-23-1	N.E. ²	N.E.
Benzyl Alcohol	100-51-6	N.E.	N.E.
Triethylene Glycol Diamine	929599	N.E.	N.E.
Diglycidyl Ether Bisphenol A Epoxy Resin	25085-99-88	N.E.	N.E.
2,4,6 Trimethylaminomethyl Phenol	90-72-2	N.E.	N.E.
1,3 Cyclohexanedimethanamine	2579-20-6	N.E.	N.E.
1,3 Benzenedimethanamine	1477-55-0	N.E.	0.1 mg/m ³
Salicylic Acid	69-72-7	N.E.	N.E.

¹Xylene is regulated by SARA III, 40CRF 372, Sec.313.²Not 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	Xylene	290°F	Specific Gravity (H2O = 1)	<1
Vapor Pressure (mm Hg)	Xylene	6	Melting Point	N/A
Vapor Density (AIR = 1)	Xylene	3.7	Evaporation rate (Butyl Acetate = 1)	0.7
Volatile Organic Compounds		330.1 g/L		
Solubility in Water	Negligible.			
Appearance and Odor	Clear liquid. Amine and aromatic solvent odor.			

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	82°F	Flammable Limits	LEL	UEL
		Xylene	1%	7%

Extinguishing Media Carbon Dioxide, Foam, Dry Chemical, Water Spray.

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus. Irritating and toxic vapors and smoke may be generated. Use water spray to cool fire exposed containers.

Unusual Fire and Explosion Hazards

Keep containers tightly closed. Vapors may migrate to an ignition source in a confined area and cause a flash fire. Isolate from all sources of heat, sparks, pilot lights, flame, electrical equipment and other sources of ignition.

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	None known.
Incompatibility (Materials to Avoid)		Strong oxidizing agents, acids, natural rubber.	
Hazardous Decomposition or Byproducts		By fire- Carbon monoxide and dioxide, Nitrogen oxide, aldehydes.	
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	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 of skin, eyes or respiratory tract.

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 be aggravated by exposure.

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

Medical Conditions Generally Aggravated by Exposure

Allergy, eczema, skin conditions and lung disorders.

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.

INGESTION - get 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 29 CFR 1919.134

effective for solvent and epoxy/amine exposure. Use SCBA or air-supplied respirators when TLV/PEL is exceeded.

Ventilation	Local Exhaust	Use in confined area.	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.
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Other Protective Clothing or Equipment

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

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

No smoking or open lights in work area. 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 or sneakers

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. Observe precautions for flammable vapors from absorbed materials.

Waste Disposal Method

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

Precautions to be Taken in Handling and Storing Keep containers tightly closed when not in use and away from excessive heat and flame. Do not pressurize, cut, weld, solder, drill or grind the containers.

Other Precautions Store in an OSHA approved area for flammable materials.

Prepared by Samet Dy - 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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IDENTITY (As Used on Label) Dur-A-Shield II Resin

COMMON NAME Epoxy Resin Solution

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	Flammability	3
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