



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-Shield II, Hardener

COMMON NAME Epoxy Hardener Solution

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

SECTION II - PRODUCT COMPONENTS

CAS.#	OSHA PEL	ACGIH TLV
Xylene ¹	1330-20-7	100ppm
Propylene Glycol Monomethyl Ether	107-98-2	200ppm
C18 Unsaturated Dimer Acids, Reaction product		
with Polyethylene polyamines	68410-23-1	N.E. ²
Benzyl Alcohol	100-51-6	N.E.
Triethylene Glycol Diamine	929599	N.E.
Diglycidyl Ether Bisphenol A Epoxy Resin	25085-99-88	N.E.
2,4,6 Trimethylaminomethyl Phenol	90-72-2	N.E.
1,3 Cyclohexanedimethanamine	2579-20-6	N.E.
1,3 Benzenedimethanamine	1477-55-0	N.E.
Salicylic Acid	69-72-7	N.E.

¹Xylene is regulated by SARA III, 40CFR 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	290F	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)	82F	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	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	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.
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	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.*		
NOTE			



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