

May Occur

Will Not Occur

Hazardous Polymerization

Material Safety Data Sheet

95 Goodwin Street, East Hartford, CT., 06108 Date Prepared 8/2/2010 (860) 528-9838 Health 3 SECTION I - IDENTIFICATION 1 Flammability = Slight Dur-A-Gard 50/50 Hardener 0 **IDENTITY (As Used on Label)** Reactivity Cycloaliphatic Diamine Epoxy Hardener = Extreme G COMMON NAME Personal Protection SECTION II - PRODUCT COMPONENTS **OSHA PEL ACGIH TLV** N.E.1 Benzyl Alcohol 100-51-6 N.E. 3-Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2 N.E. N.E. 1, 5 Pentanediamine, 2 Methyl 15520-10-2 N.E. N.E. N.E. N, Aminoethyl Piperazine 140-31-8 N.E. Diglycidyl Ether Bisphenol A Epoxy Resin N.E. 25085-99-8 N.E. Salicylic Acid 69-72-7 N.E. N.E. None 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** Specific Gravity (H2O = 1) 0.991 425°F Vapor Pressure (mm Hg) 0.1 Melting Point N/A Vapor Density (AIR = 1) Evaporation rate (Butyl Acetate = 1) N/A N/A Volatile Organic Compounds (VOC) = Zero grams/liter Solubility in Water Partially soluble. Appearance and Odor Clear low viscosity liquid. Mild amine odor. SECTION IV - FIRE and EXPLOSION HAZARD DATA Flash Point (Closed Cup Method) Flammable Limits LEL UEL 220ºF N/A N/A Extinguishing Media Water spray, Foam, CO₂, Dry Chemicals. Special Firefighting Procedures Wear full protective equipment including self-contained breathing apparatus. Irritating and/or toxic gases may be generated by fire. Unusual Fire and Explosion Hazards Cool storage containers with water spray to prevent pressure build-up that may rupture the containers. SECTION V - REACTIVITY DATA Conditions to Avoid Stability Unstable Stable Keep containers closed when not in use. Incompatibility (Materials to Avoid) Strong oxidizers and acids. Hazardous Decomposition or Byproducts By Fire - Carbon monoxide, Carbon dioxide, Nitrogen oxides. Conditions to Avoid

Uncontrolled reaction with epoxy resins.

SECTION VI - HEALTH HAZARD DATA Route(s) of Entry: Inhalation? Skin? Inaestion? YES YES YES Irritation of skin. Signs and Symptoms of Exposure Health Hazards (Acute and Chronic) ACUTE - Irritation of skin and dermatitis. CHRONIC - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure. Persons with lung disorders or who are sensitized should not use this product. NTP? OSHA Regulated? Carcinogenicity: IARC Monographs? NO NO NO Medical Conditions Generally Aggravated by Exposure Allergy, skin 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 - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice irritation develops or persists. INHALATION - Move person to fresh air if effects occur. 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. 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 Special If needed. None known. Mechanical

Adequate exhaust ventilation must exhaust AWAY from applicator. Protective Gloves Eye Protectior Splash goggles or face shield.

Natural rubber or Neoprene. Other Protective Clothing or Equipment

Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. 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 - 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 OF IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND use."



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OFOTION L. IDENTI	-10 4 -1	0 11			HAZARD RATING	Health	1
SECTION I - IDENTIFICATION					0 = Least 1 = Slight	Flammability	1
IDENTITY (As Used on Label) Dur-A-Gard 50/50 Resin					2 = Moderate	Reactivity	0
COMMON NAME Pigmented Epoxy Resin					4 = Extreme	Personal Protection	G
SECTION II - PRODUCT COMPONENTS				CAS.#	OSHA PEL	ACGIH TLV	
Diglycidyl Ether Bisphenol	А Ероху	Resin		25068-38-6	N.E. ¹	N.E.	
Aliphatic Glycidyl Ether Dil	uent			68609-97-2	N.E.	N.E.	
Titanium Dioxide				13463-67-7	15mg/m ³	10mg/m^3	
Calcium Carbonate				1317-65-3	15mg/m ³	10mg/m^3	
Aluminum Silicate				1332-58-7	15mg/m ³	2mg/m ³	
Barium Sulfate ²				7727-43-7	10mg/m ³	10mg/m^3	
Inorganic Iron Oxides				1309-37-1	15mg/m ³	10mg/m^3	
Chromium(III) Oxide Green(trivalent chromium)*3				1308-38-9	1mg/m ³	0.5mg/m^3	
¹ Not Established							
² Barium Sulfate is listed in S	SARA III	, Part 372, Sect	ion 313.				
*3This product contains only 1-3ppm (0.0001%-0.0003%) leachable hexavalent chromium. Trivalent chromium is not							
specifically listed as a possible carcinogen. Only in Dark Green and Light Green pigmented systems.							
T.S.C.A. Status - O.K. on al	l above c	omponents.					
,		· ·		EMTREC 24-HOUR EMER	GENCY NUMBER	R 1-800-424-9	300*
SECTION III - PHYSI	CAL/C	HEMICAL	CHARA	CTERISTICS		_	
Boiling Point			N/A	Specific Gravity (H2O = 1)		1.55	
Vapor Pressure (mm Hg)			N/A	Melting Point		N/A	
Vapor Density (AIR = 1)			N/A	Evaporation rate (Butyl Ace	etate = 1)	N/A	
Volatile Organic Compounds (VC	OC) = Zer	o grams/liter					
Solubility in Water NONE							
Appearance and Odor	_			characteristic odor.			
SECTION IV - FIRE a	and EX	PLOSION	HAZARI	D DATA			
Flash Point (Closed Cup Method)				Flammable Limits	LEL	UEL	
			485ºF		N/A	N/A	
Extinguishing Media Water spray, Foam, CO ₂ , Dry Chemicals.							
Special Firefighting Procedures							
Wear full protective equipme	ent inclu	ding self-contai	ned breath	ning apparatus.			
Unusual Fire and Explosion Haz	ards						
Cool storage containers with	n water sp	oray to prevent	pressure bi	uild-up that may rupture the o	containers.		
Combustion products may b	e toxic.						
SECTION V - REACT	ΓΙΥΙΤΥ	DATA					
Stability Unstable	Conditions to Av	roid					
Stable X Excess heating			g over long	g periods of time degrades the	e resin.		
Incompatibility (Materials to Avoid) Uncontrolled re							
Hazardous Decomposition or By	products	**		Carbon monoxide, Carbon d	ioxide, Nitrogen oxi	des, Aldehydes	
Hazardous May Occur Conditions to				,	, ,		
Polymerization Will Not Occur	Dlymerization Will Not Occur X Uncontrolled			ith amines.			

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.

CHRONIC - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure.

Persons with lung disorders or who are sensitized should not use this product.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

NO NO NO

Medical Conditions Generally Aggravated by Exposure

Allergy, skin 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 - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice irritation develops or persists.

INHALATION - Move person to fresh air if effects occur. 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.

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 Natural rubber or Neoprene. Eye Protection

Eye Protectior 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. Discard contaminated leather shoes and canvas sneakers. 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.

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Samet Dy - Chemist

Precautions to be Taken in Handling and Storing

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Other Precautions NONE KNOWN.

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