

# Material Safety Data Sheet

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

Date Prepared 3/26/2014

				·	•	HAZARD RATING	Health	3	
SECTION	I - IDENTIF	ICAT	ON			0 = Least	Flammability	1	
IDENTITY (As Used on Label) DUR-A-GARD ESD HARDENER						1 = Slight 2 = Moderate	Reactivity	0	
COMMON NAME Cycloaliph				c Diamine E	poxy Hardener	3 = Hign 4 = Extreme	Personal Protection	G	
SECTION	II - PRODU	JCT C	OMPONEN	ITS	CAS.#	OSHA PEL	ACGIH TLV		
Benzyl Alcoh	ol				100-51-6	N.E. *1	N.E.		
Isophorone Di					2855-13-2	N.E.	N.E.		
	liamine, 2 Meth	ıyl			15520-10-2	N.E.	N.E.		
N, Aminoeth	, ,				140-31-8	N.E.	N.E.		
	ther Bisphenol	A Epoxy	Resin		25085-99-8	N.E.	N.E.		
Salicylic Acid	d				69-72-7	N.E.	N.E.		
*1									
*1 None Establ	lished								
T.S.C.A. Statu	ıs - O.K. on all	above c	omponents.						
*FOR SPILL	, LEAK, FIR	E, OR A	CCIDENT, C	CALL CHEN	MTREC 24-HOUR EMERGE	NCY NUMBER 1-80	0-424-9300*		
					CTERISTIC!				
Boiling Point				425°F	Specific Gravity (H2O = 1)		0.991		
	(mm Ha)			0.1	Melting Point				
Vapor Pressure (mm Hg)					Evaporation rate (Butyl Ace	tate = 1)	N/A N/A		
Vapor Density (AIR = 1)  Volatile Organic Compounds				N/A	Evaporation rate (Buty) rice	1)	IN/A		
Solubility in Wa	•			63 g/L					
-			y soluble. ow viscosity lic	uid Mild o	mina adar				
Appearance and									
	IV - FIRE a		PLUSION	HAZAKI					
Flash Point (Clo	osed Cup Method	d)			Flammable Limits	LEL	UEL		
				220°F		N/A	N/A		
Extinguishing M	1edia		Water spray, l	Foam, CO <sub>2</sub> , 1	Dry Chemicals.				
Special Firefigh	ting Procedures								
Wear full prot	tective equipme	ent inclu	ding self-conta	ined breathi	nσ annaratus				
•			·		ng apparatas.				
	or toxic gases in the state of		enerated by fir	e.					
Ondsdar rine ar	id Explosion riaz	arus							
Cool storage of	containers with	water sp	oray to prevent	pressure bui	ild-up that may rupture the cont	ainers.			
SECTION	V - REAC1	IVITY	DATA						
Stability	Unstable		Conditions to A	void					
	Stable	X	Voor contain	ara alagad w	han not in uga				
Incompatibility (	Materials to Avo				hen not in use.				
. ,	composition or By		Strong oxidiz		s. Carbon monoxide, Carbon dioxi	de Nitrogen ovides			
Hazardous May Occur Conditions to					arbon monoxide, Carbon dioxi	ue, minogen uniues.			
Polymerization	Will Not Occur	X			h epoxy resins.				
		•			•				

### **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 if 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 N	Jone known.		
	Mechanical	echanical Adequate exhaust ventilation must exhaust AWAY from applicator.				
Protective Gloves		Natural rubber or Neoprene.	Eye Protectio S	plash 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.

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 byÁÁÁNT ઁ¦ĉÁÓ @æ{ãã ā]æcãÁÖÓ @ {ãrc

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PLEASE 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



## Material Safety Data Sheet

Date Prepared 95 Goodwin Street, Fast Hartford, CT., 06108 (860) 528-9838 HAZARD RATING Health **SECTION I - IDENTIFICATION** 0 = Least 2 Flammability 1 = Slight **DUR-A-GARD ESD RESIN: all colors** 0 2 = Moderate IDENTITY (As Used on Label) Reactivity 3 = High **COMMON NAME** Pigmented Epoxy Resin 4 = Extreme G Personal Protection **ACGIH TLV SECTION II - PRODUCT COMPONENTS** CAS.# **OSHA PEL** N.E. \*1 25085-99-8 Diglycidyl Ether Bisphenol A Epoxy Resin N.E. Aliphatic Glycidyl Ether Diluent 68609-97-2 N.E. N.E.  $10 \text{mg/m}^3$  $10 \text{mg/m}^3$ Rutile Titanium Dioxide 13463-67-7 Benzyl Alcohol 100-51-600 N.E. N.E. Proprietary\*2  $0.5 \text{mg/m}^3$  $0.5 \text{mg/m}^3$ Mixed Mineral Pigment  $360 \text{mg/m}^3$ 1-Methoxy-2-Propanol 107-98-2 100ppm 100ppm 2-Methoxy-1-Propanol 1589-47-5 360mg/m3 Inorganic Iron Oxides 1309-37-1  $10 \text{mg/m}^3$  $10 \text{mg/m}^3$ Aliphatic Glycidyl Ether 41638-13-5 N.E. N.E. \*1None Established \*2The manufacturer of the component states that they will provide additional information to a health professional in the event of a medical emergency. T.S.C.A. Status - O.K. on all above components \*FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOURS EMERGENCY NUMBER 1-800-424-9300\* SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS **Boiling Point** Specific Gravity (H2O = 1) N/A 1.55 Melting Point N/A Vapor Pressure (mm Hg) N/A Vapor Density (AIR = 1) Evaporation rate (Butyl Acetate = 1) N/A Volatile Organic Compounds 63 g/L Solubility in Water Slight (methoxy propanol is miscible) Appearance and Odor Pigmented viscous liquid. Mild characteristic odor. **SECTION IV - FIRE and EXPLOSION HAZARD DATA** Flash Point (Closed Cup Method) Flammable Limits UEL **LEL** 485ºF N/A N/A 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 Cool storage containers with water spray to prevent pressure build-up that may rupture the containers. Combustion products may be toxic **SECTION V - REACTIVITY DATA** Conditions to Avoid Stability Unstable Stable Excess heating over long periods of time degrades the resin. Incompatibility (Materials to Avoid) Uncontrolled reaction with amines Hazardous Decomposition or Byproducts By Fire - Carbon monoxide, Carbon dioxide, Nitrogen oxides, Aldehydes Conditions to Avoid May Occur Hazardous Polymerization Will Not Occur Uncontrolled reaction with amines

### **SECTION VI - HEALTH HAZARD DATA**

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

Signs and Symptoms of Exposure Irritation of skin.

ACUTE - Irritation of skin and dermatitis.

Health Hazards (Acute and Chronic)

CHRONIC - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized

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

persons may experience rapid irritation of skin upon exposure.

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 if 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 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.

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 T \( \hat{L} \hat{O} \text{ (2004) and a control and a contr

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use.'



### Material Safety **Data Sheet**

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

8/2/2011 HAZARD RATING Date Prepared

			·			HAZARD RATING		Health	3
SECTION	I - IDENTIF	ICATION				0 = Least		Flammability	1
IDENTITY (As U	lsed on Label)		Dur-A-Glazo	e ESD Pri	mer Hardener	1 = Slight 2 = Moderate		Reactivity	0
COMMON NAME Polyamine E				y Hardener		3 = riigii 4 = Extreme		Personal Protection	G
SECTION II - PRODUCT COMPONENTS CAS.#					OSHA PI	EL .	ACGIH TLV		
Nonyl Phenol					25154-52-3	N.E. <sup>1</sup>		N.E.	
Piperazineetha	neamine				140-31-8	N.E.		N.E.	
Polyoxalkylena	amine				9046-10-0	N.E.		N.E.	
lar recen	1 1								
<sup>1</sup> None Establis	hed								
T.S.C.A. Statu	s - O.K. on all	above comr	onents.						
				CHEMTRI	EC 24-HOUR EMERGE	NCY NUMBER 1-800	-424-9	300*	
			MICAL CHA						
Boiling Point				485°F	Specific Gravity (H2O = 1)			<1	
Vapor Pressure (mm Hg)				0.02	Melting Point			N/A	
Vapor Density (AIR = 1)				N/A	Evaporation rate (Butyl Ac	etate = 1)		N/A	
Volatile Organic	Compounds			0 g/L					
Solubility in Wate	er	Partially so	luble.						
Appearance and	Odor	Pale yellow	colored liquid.	Amine odor					
SECTION	IV - FIRE aı	nd EXPL	OSION HAZ	ARD DA	TA				
Flash Point (Clos	sed Cup Method)				Flammable Limits	LEL		UEL	
				220ºF		N/A		N/A	
Extinguishing Me	edia				de, foam, water spray.				
Special Firefight	ing Procedures				,, <sub>F</sub> ,				
Firefighters sh	ould wear full e	emergency e	anipment with se	elf-contained	breathing apparatus. Irrit	ating and/or			
	y be generated		quipinent with st	en contamed	orcading apparatus. If it	ating and/or			
	d Explosion Haza								
Cool fire - evr	osed container	e with cold	water coray to or	event pressi	re build-up that may ruptu	re the			
container.	Josed Container	s with cold	water spray to pr	event pressu	ic bund-up that may ruptu	ic the			
	V DEACT	IV/ITV/ P. 4	т.						
	V - REACT	IVIIY DA		id					
Stability	Unstable		Conditions to Avoi	iu					
		X	Keep container		not in use.				
	Materials to Avoid		Strong oxidizer		han managet 1 1 1	.: 4			
	mposition or Byp	ouucis	Conditions to Avoi		bon monoxide, carbon diox		ma a 41. *	ag fumas	
	May Occur Will Not Occur	X			Uncontrolled reaction work mixture when not use	with epoxy resins. Avoid bed within established pot l		ig tumes	
,						1			

### SECTION VI - HEALTH HAZARD DATA Route(s) of Entry: Inhalation? Skin? Ingestion? YES YES YES Irritation on skin. Signs and Symptoms of Exposure Health Hazards (Acute and Chronic) ACUTE - Irritation on skin and dermatitis. CHRONIC - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure. NTP? OSHA Regulated? Carcinogenicity: IARC Monographs? NO NO Medical Conditions Generally Aggravated by Exposure May aggravate existing respiratory or dermatitis condition. 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 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. NOTE\* Persons with lung disorders or who are sensitized should not use this product. **SECTION VII - CONTROL MEASURES** Respiratory Protection (Specify Type) Provide adequate exhaust ventilation; use a NIOSH - approved respirator if PELS/TLVS are exceeded. Local Exhaust Ventilation If needed. Special None known. Mechanical Adequate exhaust ventilation must exhaust AWAY from applicator. Protective Gloves Eye Protection Splash goggles or face shield. Natural or Neoprene gloves. 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 be 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 byÁWÁT `¦c ÁÓ@æ{ ãåãlæãÃÜÖ@ {ãrc "The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to

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NOTE



95 Goodwin Street, East Hartford, CT., 06108

## Material Safety Data Sheet

8/2/2011

Date Prepared

HAZARD RATING Health **SECTION I - IDENTIFICATION** 0 = 1 eastFlammability 1 = Slight **DUR-A-GLAZE ESD Primer RESIN** 0 IDENTITY (As Used on Label) 2 = Moderate 3 = Hiah G Pigmented Epoxy Resin COMMON NAME Personal Protection **ACGIH TLV SECTION II - PRODUCT COMPONENTS** CAS.# % **OSHA PEL** N.E.\*1 Diglycidyl Ether Bisphenol A Epoxy Resin 25085-99-8 75-87 N.E. Aliphatic Glycidyl Ether Diluent 68609-97-2 13-25 NE N.E. Carbon black, Graphite 7782-42-5 2-12 2.0 mg/M3 2.0 mg/M3 Carbon Fiber 7440-44-0 0-5 2.0 mg/M3 2.0 mg/M3 <sup>1</sup>None Established. T.S.C.A Status - O.K. on all above components. \*FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOURS EMERGENCY NUMBER 1-800-424-9300\* SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS Boiling Point N/A Specific Gravity (H2O = 1) higher than 1 Vapor Pressure (mm Hg) Melting Point N/A N/A Vapor Density (AIR = 1) Evaporation rate (Butyl Acetate = 1) N/A Volatile Organic Compounds 0 g/L Solubility in Water None Appearance and Odor Black Viscous liquid. Mild characteristic odor. **SECTION IV - FIRE and EXPLOSION HAZARD DATA** Flash Point (Closed Cup Method) Flammable Limits LEL UEL 485ºF N/A N/A Extinguishing Media Foam, CO2, Dry Chemical, Water Spray. Special Firefighting Procedures Firefighters should wear full emergency equipment with self-contained breathing apparatus. Unusual Fire and Explosion Hazards Cool fire - exposed containers with cold water spray to prevent pressure build - up that may rupture the container. Combustion products may be toxic. **SECTION V - REACTIVITY DATA** Conditions to Avoid Stability Unstable Stable Excess heating over long periods of time degrades the resin. Incompatibility (Materials to Avoid) Uncontrolled reaction with amines. Hazardous Decomposition or Byproducts Fire- Carbon Monoxide, Carbon Dioxide, Nitrogen Oxide, Aldehydes. Conditions to Avoid May Occur Hazardous Uncontrolled reaction with amines. Will Not Occur Polymerization

(860) 528-9838

### SECTION VI - HEALTH HAZARD DATA

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

Irritation on skin. Signs and Symptoms of Exposure

Health Hazards (Acute and Chronic)

ACUTE - Irritation on skin and dermatitis.

CHRONIC - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization.

Sensitized persons may experience rapid irritation of skin upon exposure.

NTP? IARC Monographs? OSHA Regulated? Carcinogenicity: 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.

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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 Eye Protection Splash goggles or face shield. Natural or Neoprene gloves.

Other Protective Clothing or Equipment

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Waste Disposal Method

NOTE

Dispose in accordance with Federal, State, and Local requirements.

Precautions to be Taken in Handling and Storing

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Other Precautions NONE KNOWN.

### Prepared by Murty Bhamidipati - Chemist

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