Revision Date: 09-06-2012 Product Code: 70715

I. PRODUCT AND COM	PANY IDENTIFICATION		
Product Name: Product Code:	EPOXY RESIN HARDENER 70715		
Document ID:	M70715		
Company:	NEOGARD® - a Division of JONES-BLAIR® Company		
	2728 Empire Central		
	Dallas, TX 75235		
	1-214-353-1600		
Revision Number:	6		
Prior Version Date:	12-01-2011		
Chemical Family:	Epoxy Hardener		
Intended use: Emergency Contact:	Epoxy Coating Polyamide Co-Reactant ChemTrec Center		
Emergency Phone:	1-800-424-9300		
International:	703-527-3887		
II. HAZARDS IDENTIFIC			
EMERGENCY OVERVIE	W: DANGER! Causes eye burns.		
	May cause allergic skin reaction.		
	Causes skin burns.		
	Toxic if swallowed. May cause target organ failure and/or death.		
	Vapor harmful.		
	May be harmful if absorbed through skin.		
Routes of Entry:	Inhalation		
	Skin absorption		
	Ingestion		
	 Eye contact Skin contact 		
Torget Organs Detential			
Target Organs Potential Affected by Exposure:	•		
Allected by Exposule.	Skin Respiratory Tract		
	Respiratory TractKidneys		
	Liver		
Medical Conditions	 Respiratory disorders, including but not limited to asthma and bronchitis. 		
Aggravated by Exposure	0		
	Eye disorders.		
	Skin disorders.		
	Contains salicylic acid which may cause allergic reactions in aspirin-sensitive		
	people.		
	•		
	th Effects by Route of Exposure:		
Inhalation Irritation: Causes nose and throat irritation. Causes lung irritation. Irritating to the nose, the			
	respiratory tract. Can cause severe respiratory irritation, dizziness, weakness, fatigue,		
nausea, headache and possible unconsciousness.			
Inhalation Toxicity:	May cause allergic respiratory reaction. Inhalation of high concentrations may be corrosive with symptoms of coughing, burning, ulceration and pain.		
	Corrosive to skin tissue. Can cause chemical burns. Sensitizer. Avoid exposure. If		
	sensitized, repeated exposures will result in irritation, reddening, and rashes even for very		
	low exposures.		

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	May cause allergic skin reaction.
Skin Absorption:	May be harmful if absorbed through skin. Contains a substance which may result in absorption of harmful amounts upon prolonged or widespread contact.
Eye Contact:	Corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness. Can cause substantial irritation.
Ingestion Irritation:	Severely irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Ingestion Toxicity:	Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Long-Term (Chronic) Health Effects:

Inhalation:	Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
	Overexposure may cause lung damage.
	Prolonged and continuous exposure to an excessive concentration has been shown to affect respiratory function. This effect may be severe.
	Overexposure may cause respiratory tract damage.
Skin Contact:	Upon prolonged or repeated contact can cause severe irritation, defatting, and dermatitis.
	May cause lingering affects but not likely to result in permanent damage if the exposure is eliminated. Prolonged contact may cause an allergic skin reaction.
Skin Absorption:	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Chronic Effects of Exposure:	Contains ingredients which can cause liver and kidney damage.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	
Benzyl alcohol	10 - 30	100-51-6	
3-amino methyl-3,5,5 Trimethyl Amine	10 - 30	2855-13-2	
Polyoxypropylenediamine	7 - 13	9046-10-0	
Epoxy Amine Adduct	7 - 13	Not Available	
Oxirane based epoxy homopolymer	1 - 5	25085-99-8	
2,4,6-Tri(dimethylaminomethyl)phenol	1 - 5	90-72-2	
Hydroxybenzoic Acid	1 - 5	69-72-7	
M-Aminoethylpiperazine	1 - 5	140-31-8	
Diethylenetriamine	0.5 - 1.5	111-40-0	

IV. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not
	breathing, give artificial respiration. Get medical attention immediately.
Eyes:	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. This corrosive material can cause immediate and permanent eye damage. Tilt the head to prevent
	chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Thoroughly wash or discard clothing and shoes before reuse.
Ingestion:	Corrosive. Do not induce vomiting! Drink one glass of water followed by milk if available. Seek medical attention immediately and give the medical care provider with this MSDS. Never give anything by mouth to an unconscious person.

V. FIRE FIGHTING MEASURES

Extinguishing Media:

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

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Fire and/or Explosion Ha	flash point, for example in a fire. Container may explode in heat of fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or		
Fire Fighting Methods an	 other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. d Protection: Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. 		
Hazardous Combustion F	Products: Carb	on dioxide, Carbon monoxide, Nitrogen containing gases, Ammonia, nydes, Phenol, Ketones	
Flash Point (°F/°C): Autoignition Temperature Lower Flammable/Explos Upper Flammable/Explos	ive Limit, % in air: ive Limit, % in air:	205 / 96 716.0 / 380.0 0.7 5.0	
VI. ACCIDENTAL RELEAS			
Personal Precautions and Methods for Clean-up: VII. HANDLING AND STO	Foll Sec be e spe the exp exc Pre the Gat	osure to the spilled material may be severely irritating or toxic. ow personal protective equipment recommendations found in tion VIII of this MSDS. Personal protective equipment needs must evaluated based on information provided on this sheet and the cial circumstances created by the spill including; the material spilled, quantity of the spill, the area in which the spill occurred, and the ertise of employees in the area responding to the spill. Never eed any occupational exposure limits. event the spread of any spill to minimize harm to human health and environment if safe to do so. Dike with suitable absorbent material. her and store in a sealed container pending disposal.	
Handling Technical Meas	ures and Precautions	S: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse.	
Storage Technical Measu		Store in a cool dry place. Keep container(s) closed.	
Engineering Measures:		tion or other engineering controls may be required when handling or	
Engineering measures.	using this product to meet the OSHA cher	avoid overexposure. Engineering controls must be designed to nical specific standard in 29 CFR 1910. Facilities storing or using	
Respiratory Protection:	General or local exha	be equipped with an eyewash and safety shower. aust ventilation is the preferred means of protection. In cases where late, respiratory protection may be required to avoid overexposure.	
Eye Protection:	Follow respirator manufacturer's directions for respirator use. Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Do not wear contact lenses. Have an eye wash station available.		
Skin Protection:		by covering as much of the exposed skin area as possible with Page 3 of 6	
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appropriate clothing to prevent skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact. Wear chemical resistant gloves.

Control Parameters:			
Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Hydroxybenzoic Acid	3mg/m ³ (respirable)		5mg/m ³ (respirable); 15mg/m ³ (total dust)
Diethylenetriamine	1ppm, 4.2mg/m ³ TWA		J . (1111-17)

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Colorless
Physical State:	Liquid
Boiling Point - Low (°F):	392.0
Boiling Point - High (°F):	476.6
Evaporation Rate:	> 1 Ethyl Ether
Odor:	Aromatic, Ammonia Like
Vapor Density:	0.95
Vapor Pressure:	1.00
VOC (g/l) (Regulatory, Calculated):	0.00
(Actual, Calculated):	0.00
Viscosity:	150 - 250 CPS
Solubility in Water:	Low; 10-39%
Octanol/Water Partition Coefficient:	Not Available
Volatiles, % by Volume (Calculated):	0.00
Volatiles, % by weight (Calculated):	0.00
Density:	8 - 9 lbs./Gal.
Physical and Chemical Properties are cal	culated target or range values for single packaged items and do not

Physical and Chemical Properties are calculated target or range values for single packaged items and do not represent compliance values for multi-component (mixed) systems.

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above the high flash point of this combustible
	material in combination with sparks, open flames, or other
	sources of ignition. Contamination. High humidity,
Materials to Avoid/Chemical Incompatibility:	Acids, Aluminum alloys, Oxidizing agents, Isocyanates,
	Anhydrides, Amines, Caustics (bases, alkalis), Lead acetate, Iron
	Salts, Iodine, Spirit nitrous ether, Acrylates, Aldehydes, Alcohols,
	Halogenated Hydrocarbons, Ketones, Nitrites
Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Nitrogen containing gases,
·	Ammonia, Aldehydes, Phenol, Ketones, Ammonia,
	Ethylenediamine, Amines

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:		
Chemical Name	CAS Number	LD50/LC50
Benzyl alcohol	100-51-6	Oral LD50 Rat 1,230 - 3,100 mg/kg
-		Dermal LD50 Rabbit 2,000 mg/kg
		Inhalation LC50 (8h) Rat 1,000 ppm
3-amino methyl-3,5,5 Trimethyl	2855-13-2	Oral LD50 Rat 1,030 mg/kg
Amine		
Polyoxypropylenediamine	9046-10-0	Dermal LD50 > 2,000 mg/kg Oral LD50 > 2,000 mg/kg

	waterial Sai	ely Dala Sh		Dete: 00.06.2012
				Date: 09-06-2012
Oxirane based epoxy homopolymer	25085-99-8	Oral LD50 Rat > 5,0 Dermal LD50 Rabbi)00 mg/kg	
2,4,6- Tri(dimethylaminomethyl)phe	90-72-2 enol	Oral LD50 < 2,000 r Dermal LD50 <= 2,0		
Hydroxybenzoic Acid	69-72-7	Oral LD50 Rat 891 (Oral LD50 Mouse 4 Oral LD50 Rabbit 1, Dermal LD50 Rabbi Dermal LD50 Rat > Inhalation LC50 (1h	80 mg/kg 300 mg/kg t > 10,000 mg/kg 2,000 mg/kg	
M-Aminoethylpiperazine	140-31-8	Oral LD50 Rat 2 g/k Dermal LD50 Rabbi	g	
Diethylenetriamine	111-40-0	Oral LD50 Rat 1,080 Dermal LD50 Rabbi Dermal LD50 Rat 67	t 1,000 mg/kg	
Carcinogens: Chemical Name Not applicable	CAS Number	IARC	NTP	OSHA
XII. ECOLOGICAL INFORM	ATION			
Toxicity data, if available, a Overview:	Components of this p	roduct are hazardous t	to wildlife and aquati	c life.
XIII. DISPOSAL CONSIDER				
Disposal Methods:Refer to other sections of this MSDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.			ne proper waste	
XIV. TRANSPORTATION INI	FORMATION			
This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.				
DOT Basic Description: Hazard Class: UN Number:	Paint Related Material 8 UN3066			
Packing Group: Other:	III This product qualifies for containers <= 1.3 gallon packagings.			
IATA Air Shipping Name: IATA Hazard Class: IATA UN Number: IATA Packing Group:	Paint Related Material 8 UN3066 III			
IMO Shipping Name: IMO Hazard Class: IMO UN Number: IMO Packing Group:	Paint Related Material 8 UN3066			

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Marine Pollutant:	Ν
XV. REGULATORY INFO	RMATION
United States Federal R	
TSCA Status All col	nponents of this product are either listed on the TSCA Inventory; or, are not subject to the ory notification requirements.
SARA EHS Chemicals Epichlorohydrin	<u>CAS #</u> <u>%</u> 106-89-8 < 0.1 ppm
CERCLA Not applicable	
SARA 313 Not applicable	
SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): Pressure: Reactivity:	Y Y N N N
<u>U. S. State Regulations</u> California Prop 65 Cher Cancer Phenyl glycidyl ether 1-Chloro-2,3-epoxypropa Reproductive Not applicable	<u>CAS #</u> <u>%</u> 122-60-1 < 1 ppm
Canadian Regulations: CEPA DSL: WHMIS Hazard Class:	The components of this product ARE listed on the Canadian Domestic Substances List. D2A E
XVI. ADDITIONAL INFO	RMATION
Prepared By: Disclaimer:	Regulatory Department This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.
Print Date:	September 06, 2012