

MATERIAL SAFETY DATA SHEET

7741

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	EPOXY HARDENER
PRODUCT CODE:	7741
DOCUMENT ID:	M7741
COMPANY:	NEOGARD® - a Division of JONES-BLAIR® Company 2728 Empire Central Dallas, TX 75235 1-214-353-1600
REVISION NUMBER:	2
PRIOR VERSION DATE:	05-28-2008
CHEMICAL FAMILY:	Epoxy Hardener
INTENDED USE:	Epoxy Coating Polyamine Co-Reactant
EMERGENCY CONTACT:	ChemTrec Center
EMERGENCY PHONE:	1-800-424-9300
INTERNATIONAL:	703-527-3887

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	WARNING! Causes eye burns. Causes skin burns. May cause allergic skin reaction. Vapor harmful. Harmful if swallowed. May be harmful if absorbed through skin.
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ROUTES OF ENTRY:	<ul style="list-style-type: none"> • Inhalation • Skin absorption • Ingestion • Skin contact • Eye contact
TARGET ORGANS POTENTIALLY AFFECTED BY EXPOSURE:	<ul style="list-style-type: none"> • Kidneys • Liver • Respiratory Tract • Skin
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	<ul style="list-style-type: none"> • Respiratory disorders, including but not limited to asthma and bronchitis. • Kidney disease • Liver disease • Skin disorders.

IMMEDIATE (ACUTE) HEALTH EFFECTS BY ROUTE OF EXPOSURE:

INHALATION IRRITATION:	Causes nose and throat irritation. Causes lung irritation. Can be corrosive to the respiratory tract causing severe irritation and tissue damage.
INHALATION TOXICITY:	Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. May cause allergic respiratory reaction. Sensitizer! Avoid exposure. If sensitized, exposure below the published exposure limits (e.g. TLV or PEL) can result in respiratory irritation, shortness of breath and difficulty breathing. These asthma-type symptoms may develop immediately or be delayed up to several hours.
SKIN CONTACT:	Corrosive to skin tissue. Can cause chemical burns.
SKIN ABSORPTION:	Highly toxic if absorbed through the skin. Likely to cause significant systemic damage even if small quantities are absorbed through skin. May be fatal if a large quantity is absorbed. 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

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	to permanent injury including blindness.
INGESTION TOXICITY:	Highly toxic if swallowed. May cause target organ failure and/or death even at a low dose. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Corrosive to tissue. Can cause severe and permanent damage to mouth, throat, stomach. Aspiration may lead to lung damage.

LONG-TERM (CHRONIC) HEALTH EFFECTS:

INHALATION:	Upon prolonged and/or repeated exposure, can be corrosive to the respiratory tract causing severe irritation and tissue damage. Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Overexposure may cause lung damage. Overexposure may cause respiratory tract damage.
SKIN CONTACT:	Upon prolonged or repeated contact, corrosive to skin tissue. Can cause chemical burns.
SKIN ABSORPTION:	Upon prolonged or repeated exposure, toxic if absorbed through the skin. Likely to cause systemic damage.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Alkyl Phenol Polyamine	80 - 90	Not Available
2,4,6-Tri(dimethylaminomethyl)phenol	3 - 7	90-72-2
Diethylenetriamine	1 - 5	111-40-0
Ethylenediamine	1 - 5	107-15-3

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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 under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
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.
FIRE AND/OR EXPLOSION HAZARDS:	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
FIRE FIGHTING METHODS AND PROTECTION:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon monoxide, Nitrogen containing gases
FLASH POINT (F/ C):	205 / 96

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VI. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EQUIPMENT:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
METHODS FOR CLEAN-UP:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal.

VII. HANDLING AND STORAGE

HANDLING TECHNICAL MEASURES AND PRECAUTIONS:	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.
STORAGE TECHNICAL MEASURES AND CONDITIONS:	Store in a cool dry place. Keep container(s) closed.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES:	Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure. Engineering controls must be designed to control vapor concentrations to below levels published in 29 CFR 1910.1000. Explosion proof exhaust ventilation should be used. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Facilities storing or using this material should be equipped with an eyewash and safety shower.
RESPIRATORY PROTECTION:	General or local exhaust ventilation is the preferred means of protection. In cases where

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	ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.
EYE PROTECTION:	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:	Avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where splashing is possible, full chemically resistant protective clothing including a full chemically resistant suit and boots are required. Wear chemical resistant gloves.

CONTROL PARAMETERS:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Diethylenetriamine	1 ppm, 4.2mg/m TWA		
Ethylenediamine	10 ppm TWA; 25 mg/m ³ TWA		10 ppm TWA; 25 mg/m ³ TWA

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Boiling Point - Low (F): 601.0
Boiling Point - High (F): 601.0
Odor: Amine-Like.
Vapor Density: > 1.00
Vapor Pressure: 0.01
VOC (g/l) (Regulatory, Calculated): 20.85
 (Actual, Calculated): 20.85
Viscosity: 1400 - 2800 CPS
Solubility in Water: Minimal; 1-9%
Octanol/Water Partition Coefficient: Not Available

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Volatiles, % by Volume (Calculated): 2.17
Volatiles, % by weight (Calculated): 2.11
Density: 8.13 - 8.33 lbs./Gal

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.
MATERIALS TO AVOID/CHEMICAL INCOMPATIBILITY:	Oxidizing agents, Acids, Acrylates, Aldehydes, Alcohols, Halogenated Hydrocarbons, Ketones, Nitrites, Chlorinated compounds
POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, Nitrogen containing gases, Ammonia, Ethylenediamine, Amines

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:		
Chemical Name	CAS Number	LD50/LC50
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	Oral LD50 < 2000 mg/kg Dermal LD50 <= 2000 mg/kg
Diethylenetriamine	111-40-0	Oral LD50 Rat 1080 - 2330 mg/kg Dermal LD50 Rabbit 1000 mg/kg Dermal LD50 Rat 672 - 1240 mg/kg
Carcinogens:		

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Chemical Name	CAS Number	IARC	NTP	OSHA
Not applicable				

XII. ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below.

XIII. DISPOSAL CONSIDERATIONS

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.

XIV. TRANSPORTATION INFORMATION

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:

Paint Related Material, Not-Regulated

XV. REGULATORY INFORMATION

United States Federal Regulations:

TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

SARA EHS Chemicals	CAS #	%
Ethylenediamine	107-15-3	1-5

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CERCLA Ethylenediamine	107-15-3	1-5
SARA 313 Not applicable		
SARA 311/312 Health (Acute): Y Health (chronic): Y Fire (Flammable): N Pressure: N Reactivity: N		
U. S. State Regulations: California Prop 65 Chemicals Cancer Not applicable Reproductive Not applicable		
Canadian Regulations: CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances List. WHMIS Hazard Class: D2B E		

XVI. ADDITIONAL INFORMATION

PREPARED BY:	Regulatory Department
DISCLAIMER:	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:	August 24, 2010