

MATERIAL SAFETY DATA SHEET

70719

I PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	FLEXIBLE EPOXY CATALYST
PRODUCT CODE	70719
DOCUMENT ID	M70719
CHEMICAL FAMILY	Amine Co-Reactant
REVISION NUMBER	2
PRIOR VERSION DATE	06-24-2009
COMPANY:	NEOGARD® - DIVISIÓN DE JONES-BLAIR® COMPAÑÍA 2728 Empire Central Dallas, TX 75235
INTERNATIONAL:	703-527-3887
EMERGENCY CONTACT	ChemTrec Center
EMERGENCY PHONE	1-800-424-9300

II HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	WARNING! 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. Causes nose and throat irritation.
ROUTES OF ENTRY:	<ul style="list-style-type: none">• Eye contact• Inhalation• Skin contact

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IMPERMEABILIZANTES

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	<ul style="list-style-type: none"> • Skin absorption • Ingestion
TARGET ORGANS POTENTIALLY AFFECTED BY EXPOSURE:	<ul style="list-style-type: none"> • Skin • Respiratory Tract • Central nervous system • Kidneys • Liver
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	<ul style="list-style-type: none"> • Respiratory disorders, including but not limited to asthma and bronchitis. • Skin allergies. • Skin disorders. • Contains salicylic acid which may cause allergic reactions in aspirin-sensitive people.

Immediate (Acute) Health Effects by Route of Exposure:

INHALATION IRRITATION	Causes nose and throat irritation. Causes lung irritation. Irritating to the nose, throat, and 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.
SKIN CONTACT	Causes skin burns. Corrosive to skin tissue. Can cause chemical burns. May cause allergic skin reaction.
SKIN ABSORPTION:	May be harmful if absorbed through skin.
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.

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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.
SKIN CONTACT:	Upon prolonged or repeated contact can cause severe irritation, defatting, and dermatitis. May cause lingering effects 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 #
Polyamidoamine	10 - 30	68410-23-1
Benzyl alcohol	10 - 30	100-51-6
4-Nonylphenol	10 - 30	84852-15-3
M-Aminoethylpiperazine)	5 - 10	140-31-8
Hydroxybenzoic Acid	1 - 5	69-72-7

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.
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EYES	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. 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:	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

V FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
FIRE FIGHTING METHODS AND PROTECTION	Material may be ignited only if preheated to temperatures above the high 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 other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
FIRE FIGHTING METHODS AND 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 PRODUCTS	Carbon dioxide, Carbon monoxide, Aldehydes
FLASH POINT (°F/°C)	250 / 121
AUTOIGNITION TEMPERATURE (°F/°C):	865.0 / 436.0
LOWER FLAMMABLE/EXPLOSIVE LIMIT, % IN AIR:	1.0

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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. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

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. 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 MEASURES AND CONDITIONS	Store in a cool dry place. Keep container(s) closed.

VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES	Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.
RESPIRATORY PROTECTION	General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.

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EYE PROTECTION	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. 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. Clothing suitable to prevent skin contact. Wear chemical resistant gloves.

Control Parameters:

CHEMICAL NAME			
Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Hydroxybenzoic Acid	3mg/m (respirable)		5mg/m (respirable); 15mg/m (total dust)

IX PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Colorless
PHYSICAL STATE	LIQUID
BOILING POINT - LOW (°F)	400.0
BOILING POINT - HIGH (°F):	401.0
EVAPORATION RATE:	> 1 Ethyl Ether
ODOR:	Ammonia Like, Aromatic

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VAPOR DENSITY:	7.40 (air = 1)
VAPOR PRESSURE	0.10 (mm Hg @ 77 F / 25° C) < 0.10 mm Hg @ 60 F (20 C) 0.10
VOC (G/L) (REGULATORY, CALCULATED)	0.00
VOC (G/L) (ACTUAL, CALCULATED)	0.00
VISCOSITY	1,200 - 2,000 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 - 8 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. High humidity,
MATERIALS TO AVOID/CHEMICAL	Acids, Aluminum alloys, Oxidizing agents, Lead acetate, Iron Salts,

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INCOMPATIBILITY	Iodine, Spirit nitrous ether
POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide, Carbon monoxide, Ammonia, Nitrogen containing gases, Aldehydes, Ketones, Phenol

XI TOXICOLOGICAL INFORMATION

Component Toxicology Data

Chemical Name	CAS Number	LD50/LC50
Polyamidoamine	68410-23-1	Oral LD50 > 2,000 mg/kg Dermal LD50 ≤ 2,000 mg/kg
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
M-Aminoethylpiperazine	140-31-8	Oral LD50 Rat 2 g/kg Dermal LD50 Rabbit 1 g/kg
Hydroxybenzoic Acid	69-72-7	Oral LD50 Rat 891 mg/kg Oral LD50 Mouse 480 mg/kg Oral LD50 Rabbit 1,300 mg/kg Dermal LD50 Rabbit > 10,000 mg/kg Dermal LD50 Rat > 2,000 mg/kg Inhalation LC50 (1h) Rat > 900 mg/m

Carcinogens

Chemical Name	CAS Number	IARC	NTP	OSHA
Not applicable				

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XII ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below

OVERVIEW:	Components of this product are hazardous to wildlife and aquatic life.
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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.
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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
HAZARD CLASS:	8
UN NUMBER:	UN3066
PACKING GROUP:	III
OTHER:	This product qualifies for a limited quantity exception per CFR173.154(b)(2) for inner containers <= 1.3 gallon (5L) net capacity for liquids and packed in strong outer packagings.
IATA AIR SHIPPING NAME	Paint Related Material
IATA HAZARD CLASS	8
IATA UN NUMBER	UN3066
IATA PACKING GROUP	III
MARINE POLLUTANT	Y

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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.

	CAS #	%
SARA EHS Chemicals Not applicable		
CERCLA Not applicable		
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	CAS #	%
Not applicable		
REPRODUCTIVE		
Not applicable		

Canadian Regulations:

CEPA DSL	The components of this product ARE listed on the Canadian Domestic Substances List.
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WHMIS HAZARD CLASS	D2B
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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	December 19, 2012