

Glenmarc Industries Inc. 2001 S. Blue Island Ave Chicago IL 60608

312-243-0800 fax 312-243-4670 email: info@glenmarc.com www.glenmarc.com

Material Safety Data Sheet

Date 03/01/2008

MANUFACTURER:
Glenmarc Industries Inc.
2001 S. Blue Island Ave.
Chicago IL 60608

Emergency Phone:
800-255-3924
Chemtel
Non-emergency Phone:
800-323-5350

PRODUCT: Part B epoxy curing agent

PRODUCT NAME:

GEH4004 Hardener

Chemical Family: Poly Amide

HAZARD RATINGS:

Fire: 1

Health: 2

Reactivity: 0

Flash Point: >215F Method: COC

CHEMICAL NAME: Epoxy Hardener-Formulated Proprietary Formula

Hazardous Ingredients

	CAS#	PEL/TLV-TWA	STEL-TWA	%(optional)
Poly(oxy(methyl-1,2 ethanedlyl))	9046-10-0	N/E	N/E	--
Nonyl Phenol	84852-15-3	N/E	N/E	--
Triethylenetetramine	112-24-3	N/E	N/E	--
N/E -not established	T/S- trade secret		S-skin	

Health Hazard Data

Chemical listed as carcinogen or potential carcinogen in NTP, IARC or OSHA 1910(z): This material is neither carcinogenic or potentially carcinogenic

Occupational Exposure limits

OSHA limits have not been established for this product

ACGIH limits have not been established for this product

Effects of Overexposure

Skin contact: skin contact may result in irritation or chemical burn

Eye contact: Product can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.

Inhalation: Vapor is irritating to the upper respiratory membrane if swallowed.

Ingestion: Liquid causes damage to mucous membrane if swallowed.

Primary routes of entry: skin contact

Emergency and First Aide Procedures

Eye Contact: Flush with water for 15 minutes while holding eyelids open. Contact Physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and shoes. Do not Reuse until cleaned. If persistent irritation occurs. Contact Physician.

Inhalation: Remove to fresh air

Ingestion: Do not induce vomiting. Give large amounts of water. Call Physician. Treatment based on judgement of physician in response to actions of patient.

SECTION 6 Physical Data

Boiling Point: Not Measured

Melting Point: n/a

Vapor Pressure: <1mm Hg @ 29C

Specific Gravity: 0.97 (H₂O=1)

Solubility in Water: Yes

Density: >1 @ 77F

Percent Volatile: 0%

Evaporation rate: <0.01

Percent solid by weight: 100%

Appearance and Odor: Transparent, amine odor, liquid
8.06 lbs/gal

Fire and Explosion Hazards

Flash point and method used: >215FF Method: COC

Flammable limits/%Volume in Air lower-n/a Upper- n/a

Extinguishing Media: Water, CO₂, dry chemicals, fog

Special Fire Fighting Procedures and Precautions: Do not enter confined fire space without proper protective equipment including a NIOSH approved self-contained breathing apparatus. Water on foam may cause frothing which can be violent.

Unusual Fire and Explosion Hazards:

Container areas exposed to intense heat/flame should be cooled with Water to prevent build-up and/or weakening of container structure.

Reactivity

Stability: Stable

Hazardous Polymerization: will not occur

Conditions and Materials to avoid:

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, by products may include oxides of nitrogen when burned.

Avoid mixing resin/hardener in uncontrollable quantities.

Employee Protection

Respiratory protection:

Applied or exothermic heat may resulting release of free polyamines. In such cases, use a NIOSH-approved respirator as required to prevent over-exposure. In accord with 29 CFR 1910.134, use either an atmosphere supplying respirator or an air-purifying respirator for organic vapors.

Protective clothing:

Wear impervious gloves and protective clothing as required to prevent skin contact. Wear chemical goggles to prevent eye contact.

Additional Preventive Measures:

Ventilation is required for mixing, application, and curing operations to control vapor concentrations, particularly for processes involving heat. Eye wash fountains should be available for emergency use.

Environmental Protection_____

Spill or leak procedures:

Use cautious judgment when cleaning up large spills.

Large spills:

Wear respirator and protective clothing as appropriate. Shut off sources of leak if safe to do so. Dike and contain. Flush area with water to remove trace residue. Dispose of flush legally.

Small spills: Take up with an absorbent material and dispose of properly.

Waste disposabl: Place in appropriate disposal facility in compliance with local regulations.

Special Precautions_____

Keep container tightly closed. Store in cool, dry place.

Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

Transportation Requirements_____

Not regulated by D.O.T.

SECTION 13 Supplementary Health /Regulatory Information_____

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk to his use of the material.