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Material Safety Data Sheet

Date 03/01/2008

SECTION 1 _____

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:

GEH4000 HARDENER

SECTION 2 CHEMICAL COMPOSITION AND DATA

Chemical Family: Poly Amide

HAZARD RATINGS:

Fire: 1

Health: 2

Reactivity: 0

CHEMICAL NAME: Polyamide Resin

SECTION 3 HAZARDOUS INGREDIENTS

CAS#	PEL/TLV-TWA	STEL-TWA
68410231	N/E	N/E

N/E -not established

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes while holding eyelids open. Immediately seek Medical care.

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 and provide oxygen if breathing is difficult. Give artificial respiration if not Breathing. Contact physician.

Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product is ingested. Contact physician.

SECTION 5 FIRE-FIGHTING MEASURES

Flash point and method used: 365F Cleveland open cup

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

Extinguishing Media: CO₂, dry chemicals, water 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. Cool fire exposed container with water

Unusual Fire and Explosion Hazards:

Container areas exposed to intense heat or flame should be cooled with H₂O to prevent pressure build up and/or weakening of container structure.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material. Dispose of properly. Flush area with water to remove trace residue.

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

If additional clean up is necessary, scrub with 5% acetic acid then rinse with hot water.

SECTION 7 HANDLING/STORAGE

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

Store at ambient temperatures in well ventilated area. Avoid sparks, open flames and extreme heat. Store separately from amine curing agents. Protect container from physical damage.

Container, even those that have been emptied, can contain product residues. Handle in accordance with good industrial practices. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing before use.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: not determined Melting Point: n/a

Vapor Pressure: negligible at 20C

Specific Gravity: 0.972 (H₂O=1)

Solubility in Water: moderate

Density:<1

Percent Volatile: 0%

Evaporation rate: N/AV

Percent solid by weight: 100%

Appearance and Odor: amber liquid with ammoniacal odor

Analytical 8.1 lbs/gal

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: May occur

Conditions and Materials to avoid:

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:N/A

SECTION 11 TOXICOLOGICAL INFORMATION

Eye contact: Can cause severe irritation, swelling and/or chemical burn

Skin contact: may result in irritation or chemical burn

Inhalation: vapor is irritating to the upper respiratory system and mucous membranes

Ingestion: Liquid causes damage to mucous membrane if swallowed.

Primary routes of entry:

Inhalation and skin contact

SECTION 12 ECOLOGICAL INFORMATION

OSHA permissible exposure limit: OSHA limits have not been established for this product

ACGIH threshold limit value: ACGIH limits have not been established for this product.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal regulations.

SECTION 14 TRANSPORT INFORMATION

Not regulated by D.O.T.

SECTION 15 REGULATIONS

Not restricted

SECTION 16 OTHER 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.