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## Material Safety Data Sheet

Date 03/01/2008

### SECTION 1

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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 NAME:  
**GER3004**

HAZARD RATINGS:  
Fire: 1  
Health: 2  
Reactivity: 0

CHEMICAL NAME: Bisphenol A/Epichlorohydrin Based Epoxy Resin  
CHEMICAL FAMILY: Epoxy Resin

### SECTION 2 Ingredients

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Bisphenol A/Epichlorohydrin Based Epoxy Resin >99% CAS# 25068-38-6

This product is an epoxy resin produced by the condensation reaction of Epichlorohydrin and Bisphenol A. These raw materials are consumed in the process. Residual levels of Epichlorohydrin are controlled to 1 PPM, Max in the product.

Toxicity Data:

Oral LD-50 (rat)=> 11.4g/kg (mouse)=>15.6/kg  
Dermal LD-50 (rbt)=6.5g/kg

Acute inhalation LC50—no deaths in Sat'd air, 8 hr.\*

\*This inhalation test may be relevant due to low volatility of the resin. (See section 7)

### SECTION 3 Health Information

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Eye contact: Can cause moderate irritation

Skin contact: Moderately irritating to skin. Prolonged or repeated skin exposure may result in Sensitization.

Inhalation: Because of its low volatility (see section 7) this product is not likely to be an inhalation hazard.

Ingestion: Based on testing product is considered to have a low order of acute oral toxicity.

### SECTION 4 Occupational exposure limits

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None established

### SECTION 5 Emergency and First Aide Procedures

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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 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 6 Physical data \_\_\_\_\_

Boiling point: >500F

Melting point: n/a

Specific Gravity: (water=1) 1.17

Evaporation rate: n/a

Flammable limits/%Volume in Air lower----- Upper\_\_\_\_\_

Solubility in Water: negligible

Vapor pressure: 0.03@77C

Appearance and Odor: Very light yellow, very viscous

## SECTION 7 Fire and Explosion Hazards \_\_\_\_\_

Flash point and method used: <200F (COC)

Lower flammable limit: n/a Upper flammable limit: n/a

Extinguishing Media: CO<sub>2</sub>, dry chemicals, water fog, foam

Special Fire Fighting Procedures and Precautions: Material will not burn unless preheated. Do not enter confined fire space without proper protective equipment including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.

## SECTION 8 Reactivity \_\_\_\_\_

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions and Materials to avoid:

Can react vigorously with strong oxidizing agents and strong Lewis or mineral acids. Avoid amines and bases. In reactions with many curing agents, considerable heat is released.

Hazardous Decomposition Products:

Carbon monoxide, aldehydes and acids may be formed during combustion. Reaction with some curing agents may produce considerable heat.

## SECTION 9 Employee Protection \_\_\_\_\_

Respiratory protection:

Not ordinarily required

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 10 Environmental Protection \_\_\_\_\_

Spill or leak procedures:

May burn although not readily ignitable. Use cautious judgment when cleaning up large spills.

Large spills:

Ventilate area. Wear protective clothing, shoes and eye protection.. Shut off sources of leak if safe to do so. Dike and contain. Absorb spill with absorbent material and place in closed container.

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

Handle in accordance with the potential of the curing agent used.

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

For further information: Contact EPA-RCRA Hotline 800-424-9346

Environmental Hazards: \_\_\_\_\_

SECTION 11 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.

SECTION 12 Transportation Requirements\_\_\_\_\_

Not Hazardous by D.O.T. regulations

D.O.T. proper shipping name: not regulated

Other requirements: none

SECTION 13 Supplementary Health /Regulatory Information\_\_\_\_\_

This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372

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.