GLENMARC INDUSTRIES INC. 2001 S. BLUE ISLAND AVE. CHICAGO IL 60608 PH: 312-243-0800 FAX: 312-243-4670 EMAIL: info@glenmarc.com

MATERIAL SAFETY DATA SHEET
P-1500 PORTION STICK

MSDS date: 4/14/2008

SECTION 1 - PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: P-1500 PORTION STICK
CAS NUMBER: MIXTURE
HAZARD RATING: HEALTH: 1 FIRE: 1 REACTIVITY: 0 PPI: B

COMPANY IDENTIFICATION: GLENMARC INDUSTRIES INC.
2001 S. BLUE ISLAND AVE
CHICAGO IL 60608

TELEPHONE/FAX
PH: 312-243-0800 FAX: 312-243-4670
CHEMTEL 800-255-3924

PRODUCT CLASS: EPOXY PUTTY
TRADE NAME: P-1500 PORTION STICK
PRODUCT CODE: 220-0014/ 220-0014K
DOT HAZARD CLASS: NONE
SHIPPING NAME: PUTTY, NMFC 150110

SECTION 2 - INGREDIENT AND HAZARD INFORMATION

INGREDIENT NAME GLYCIDYL ETHERS OF BISPHENOL A RESINS
CAS NUMBER 25068-38-6 PERCENT 10-30
HAZARD RATING HMIS HEALTH: 2 REACTIVITY: 0 PPI: B
TRI (DIMETHYLAMINOMETHYL) PHENOL
CAS NUMBER 90-72-2 PERCENT 0.5-1.5
HAZARD RATING HMIS HEALTH: 2 REACTIVITY: 1 PPI: D
ZINC SULFIDE
CAS NUMBER 1314-98-3 PERCENT 0.5-1.5
HAZARD RATING HMIS HEALTH: 2 REACTIVITY: 1 PPI: E

***ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE T.S.C.A. INVENTORY

SECTION 3 - PHYSICAL DATA

Form: putty
Appearance/Color white/neutral
Odor: sulfur, mercaptan
Solubility in water: insoluble in water
Ph Value: n/a
Boiling point: n/a
Vapor pressure (mmHg): n/a
Melting point: n/a
Evaporation rate: non volatile
Vapor density: non volatile
% volatile weight: 0.0%
% volatile: <1%
VOC: <1%

MSDS Name: P-1500
Safety Data Sheet (SDS)

Molecular weight
Heavy elements (ppm) 0.
Specific gravity 1.9

Note: physical data represented above are typical values and should not be construed as a specification. For additional physical data and details on use, please obtain a technical data sheet for this product.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flammability Class
Flash range none, n/a
Explosive range none, n/a

EXTINGUISHING MEDIA: water spray, foam, CO2, dry chemicals.

UNUSUAL HAZARDS: N/A

FIRE FIGHTING: fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

SECTION 5 - HEALTH HAZARD DATA

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>Exposure and Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Rat, adult</td>
<td>LD50 5000 mg/Kg</td>
</tr>
<tr>
<td>Skin</td>
<td>Rabbit, adult</td>
<td>LD50 20000 mg/Kg</td>
</tr>
<tr>
<td>Tri (dimethylaminomethyl) phenol</td>
<td>Rat, adult</td>
<td>LD50 1630 mg/Kg</td>
</tr>
</tbody>
</table>

Permissible exposure level: N/A
Effects of overexposure: N/A
First Aid:
- Never give anything by mouth to an unconscious person.

SECTION 6 - STABILITY AND REACTIVITY DATA

Stability: stable
Hazardous Polymerization: will not occur

Incompatibility:
Conditions to Avoid:
Hazardous decomposition products:
SECTION 7- SPILL AND LEAK PROCEDURES

Steps to be taken:
Spills or leaks: dispose of in normal manner

Waste disposal method:
Incorporate in furnace or bury in landfill in accordance with all applicable regulations, not a hazardous waste.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

<table>
<thead>
<tr>
<th>Material</th>
<th>ACGIH TLV</th>
<th>ACGIH TLV-C</th>
<th>ACGIH STEL</th>
<th>OSHA STEL</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycidyl ethers of bisphenol A resins</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
</tr>
<tr>
<td>Tri(dimethylaminoethyl) phenol</td>
<td>5.00 PPM</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
</tr>
<tr>
<td>Zinc Sulfide</td>
<td>5.00 PPM</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
<td>Niest</td>
</tr>
</tbody>
</table>

Protective Equipment Types:

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Safety glasses/goggles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory</td>
<td>None required with well ventilated area</td>
</tr>
<tr>
<td>Gloves</td>
<td>Appropriate impervious gloves. Consult glove mfr. To determine proper type</td>
</tr>
<tr>
<td>Other</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Ventilation:

| General mechanical                          | none required |
| Local exhaust                               | use to keep exposures below recommendation. Use if material is heated above 100F. |

SECTION 9- HANDLING AND STORAGE

Handling

Storage temperature: < 90°F (32°C)

Storage conditions: store in cool, dry, well ventilated area

Transfer: No special procedures needed. Follow good manufacturing and handling practices.

Personal Hygiene: wash thoroughly after handling, especially before eating, drinking, smoking and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before use.

Empty container precautions: ATTENTION! This container can be hazardous when empty. Follow label cautions even after the container is empty since empty containers could retain product residues. Do not re-use empty containers for food, clothing or products for human or animal consumption or where skin contact can occur.
SECTION 10: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc sulfide</td>
<td>1314-98-3</td>
<td>0.5-1.5</td>
</tr>
</tbody>
</table>

Right to know:

Note.

USER RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workspace, all aspects on an individual operation should be examined to determine id. or where precautions –in addition to those described herein—are required. Any health hazard and safety information herein should be passed on to your customers or employees as the case may be.

DISCLAIMER OF LIABILITY:
The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by the use of this material. All chemicals may be present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation of warranties either expressed or implied or merchantability, fitness for a particular purpose or any other nature are made herewith with respect to the information refers. It is the responsibility of the user to comply with all applicable federal, state, local laws and regulations.