MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 99.7% USP GLYCERINE FOOD GRADE KOSHER

CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: 99.7% USP GLYCERINE - FGK
CAS#: 56-81-5
DATE: May 27, 2005

DISTRIBUTOR: ACME-HARDESTY COMPANY
ADDRESS: 1787 Sentry Parkway West
Suite 18-460
Blue Bell, PA 19422

TELEPHONE: (800) 223-7054
FAX: (215) 591-3620
EMERGENCY: (800) 424-9300 CHEMTREC

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

NOT APPLICABLE

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 554°F, 290°C
SPECIFIC GRAVITY (H₂O=1): 1.2067@25/25°C
VAPOR PRESSURE (mm Hg): 1.0 @ 20°C
MELTING POINT: Not applicable
EVAPORATION RATE: Not applicable
DENSITY (@20°C): 1.26 g/cm³
SOLUBILITY IN WATER: Miscible
pH: Neutral
CLOUD POINT: No data
VISCOSITY: 1300 mPa’s
FREEZING POINT: 64.4°F, 18°C
APPEARANCE & ODOR: Transparent, characteristic odor, liquid

FIRE & EXPLOSION HAZARD DATA

FLASH POINT: 390°F, 199°C
EXTINGUISHING MEDIA: Water Fog, Alcohol, foam, carbon dioxide, dry chemical, halogenated agents
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus with full facepiece and protective clothing
AUTOIGNITION TEMP: 698°F, 370°C
UNUSUAL FIRE AND EXPLOSION HAZARDS: Nothing specified
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REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Avoid strong oxidizing agents
INCOMPATIBILITY (materials to avoid): Oxidizing material
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: N/A

HEALTH HAZARD DATA

ROUTES OF ENTRY:
Inhalation: Remove to fresh air
Skin: N/A
Ingestion: Induce vomiting

HEALTH HAZARDS (acute & chronic):
May cause eye irritation, flush with water for 5 minutes

SIGNS & SYMPTOMS OF EXPOSURE
Heated vapors may cause severe irritation, administer oxygen with overexposure

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
See above

EMERGENCY & FIRST AID PROCEDURES
If exposed to heated vapors, remove to fresh air/administer oxygen and call physician

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Small spill - cover with absorbent material, soak up & sweep into drum
Large spills - dike around spills & pump into suitable container

WASTE DISPOSAL METHOD:
Reprocess or incinerate in accordance with local, state & federal regulations

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Practical reasonable care and caution

OTHER PRECAUTIONS
None specified.

STORAGE REQUIREMENTS:
50-90°F in original closed container.
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**CONTROL MEASURES**

<table>
<thead>
<tr>
<th>VENTILATION:</th>
<th>none specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Exhaust:</td>
<td>none specified</td>
</tr>
<tr>
<td>Mechanical (general):</td>
<td>none specified</td>
</tr>
<tr>
<td>Special:</td>
<td>none specified</td>
</tr>
<tr>
<td>Other:</td>
<td>Recommended control of mist</td>
</tr>
<tr>
<td>PROTECTIVE GLOVES:</td>
<td>Not required</td>
</tr>
<tr>
<td>EYE PROTECTION:</td>
<td>Not required</td>
</tr>
<tr>
<td>WORK/HYGIENIC PRACTICES:</td>
<td>Normal hygienic practices.</td>
</tr>
</tbody>
</table>

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not applicable

**TOXICOLOGICAL INFORMATION**

The toxicity data listed below are based on the results of screening tests on this specific product.

<table>
<thead>
<tr>
<th>EYE CONTACT:</th>
<th>This material is nonirritating in rabbit eye irritation studies; no irritation is likely to occur after human eye contact.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CONTACT:</td>
<td>This material is nonirritating in rabbit dermal irritation studies. No irritation is likely to develop following contact with human skin.</td>
</tr>
<tr>
<td>ACUTE ORAL TOXICITY:</td>
<td>This material is classified as &quot;slightly toxic&quot; by ingestion.</td>
</tr>
<tr>
<td>CARCINOGENICITY:</td>
<td>This material is not listed as a carcinogen by OSHA, IARC, and NTP.</td>
</tr>
</tbody>
</table>

**ECOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>DEGRADABILITY:</th>
<th>Completely biodegradable BOD5 / COD: 0.87 / 1.16 (gO2/g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50, FISH:</td>
<td>&gt;5000 mg/l</td>
</tr>
<tr>
<td>IC50, ALGAE:</td>
<td>&gt;2900 mg/l</td>
</tr>
<tr>
<td>EC50, BACTERIA:</td>
<td>&gt;10000 mg/l</td>
</tr>
</tbody>
</table>

**DISPOSAL CONSIDERATIONS**

<table>
<thead>
<tr>
<th>DISPOSAL METHOD:</th>
<th>Discarded product is not a hazardous waste under RCRA, 40 CFR 261</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTAINER DISPOSAL:</td>
<td>Empty container retains product residue. Observe all hazard precautions. do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.</td>
</tr>
</tbody>
</table>

**TRANSPORT INFORMATION**

NOT CLASSIFIED IN RID/ADR/DOT – ADNR – IMDG – ICAOMATA-DGR
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REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:
All ingredients are on the TSCA Chemical Substance Inventory

DSL (Canadian Domestic Substances List):
All ingredients are listed on the Canadian DSL

OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:
Physical Hazards: None
Health Hazards: None

WHMIS Classification:
Noncontrolled (Nonhazardous)

CEROLA and SARA Regulations (40 CFR 355, 370, and 372):
This material contains the following chemicals subject to the reporting requirements of SARA 313:
***NO SARA 313 CHEMICALS FOR THIS CHEMICAL***

SARA 311/312 Hazard Categories:
Immediate: YES
Delayed: NO
Fire: YES
Pressure: NO
Reactivity: NO

State Regulations: None

OTHER INFORMATION

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment is provided with information contained in the product MSDS.

NFPA Information: Health: 1 Flammability: 1 Reactivity: 0
HMIS Information: Health: 1 Flammability: 1 Reactivity: 0