SECTION I

MANUFACTURER'S NAME
NASCO

ADDRESS (Number, Street, City, State, and ZIP Code)
901 Janesville Ave., Fort Atkinson, Wisconsin 53538

CHEMICAL NAME AND SYNONYMS
Ethylene glycol; 1,2-ethanediol

TRADE NAME AND SYNONYMS
F-NASCO-GUARD

FORMULA
Glycols

125% ethylene glycol-water solution

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>PAINTS, PRESERVATIVES, &amp; SOLVENTS</th>
<th>%</th>
<th>TLV (Units)</th>
<th>ALLOYS AND METALLIC COATINGS</th>
<th>%</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIGMENTS</td>
<td></td>
<td>BASE METAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CATALYST</td>
<td></td>
<td>ALLOYS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VEHICLE</td>
<td></td>
<td>METALLIC COATINGS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOLVENTS</td>
<td></td>
<td>FILLER METAL PLUS COATING OR CORE FLUX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDITIVES</td>
<td></td>
<td>OTHERS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHERS</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Preservatives:

- Formaldehyde (always present)
- Phenol (may be present)

0.5%

0.5%

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>BOILING POINT (°F) (at Sea Level)</th>
<th>214</th>
<th>SPECIFIC GRAVITY (H₂O=1) (at 70° F)</th>
<th>1.033</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAPOR PRESSURE (mm Hg) (at 70° F)</td>
<td>19</td>
<td>PERCENT, VOLATILE BY VOLUME (%)</td>
<td>nil</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1) (100% glycol)</td>
<td>2.14</td>
<td>EVAPORATION RATE (butyl acetate =1)</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>Colorless, sweet tasting, liquid with mild odor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>FLASH POINT (Method used)</th>
<th>240° F for 100% ethylene glycol</th>
<th>FLAMMABLE LIMITS</th>
<th>% Volume in air</th>
<th>1.7</th>
<th>15.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>For 100% ethylene glycol use water spray, dry chemical or universal foam</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>NONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USUAL FIRE AND EXPLOSION HAZARDS</td>
<td>NONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Continued on reverse side)
SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
For Vapors - 50 ppm, for particles - 10mg/m³

EFFECTS OF OVEREXPOSURE
Swallowing-abdominal pain, dizziness, lumbar pain, central nervous system
inhalation-irritation of throat, headache, eye contact-mist may irritate eyes.
Swallowing-if conscious, induce vomiting, call physician immediately.
Inhalation - remove to fresh air
Eyes - Flush with water

SECTION VI - REACTIVITY DATA

STABILITY
UNSTABLE | CONDITIONS TO AVOID
STABLE | X

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS
Burning may produce carbon monoxide and/or carbon dioxide

HAZARDOUS POLYMERIZATION
MAY OCCUR | CONDITIONS TO AVOID
WILL NOT OCCUR | X | NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Flush small spills with water
collect larger spills for disposal

WASTE DISPOSAL METHOD
100% glycol may be mixed with flammable solvent and burned
in a furnace where Federal, State and local regulations permit.
Glycol-treated specimens may be incinerated.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Air-supplied mask in high vapor concentrations

VENTILATION
LOCAL EXHAUST
Needed where concentrated vapors are vented
MECHANICAL (General)
General room ventilation is adequate for dissection

PROTECTIVE GLOVES
Not necessary for handling specimens, not necessary for viewing specimens

OTHER PROTECTIVE EQUIPMENT
None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DO NOT DRINK LIQUID

OTHER PRECAUTIONS

NONE