Section 1 - Product Identification

Six different solutions. All liquids may be irritating to eyes, skin, digestive tract or respiratory tract.

Section II - Hazards Identification

Overview: May be harmful if swallowed. May be irritating to skin and eyes.

Safety Ratings

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slight</td>
<td>None</td>
<td>None</td>
<td>Slight</td>
</tr>
</tbody>
</table>

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 1  Flammability = 0  Reactivity = 0

Potential Health Effects

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to other weak acids.

Inhalation: May be irritating. Not normally a problem.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Eye contact: May be irritating.

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Unknown

Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide (Conjugate)</td>
<td>26628-22-8</td>
<td>0.3 mg/m³ (Ceil) skin</td>
<td>0.3 mg/m³ (Ceil) skin</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>Formaldehyde (Positive Control)</td>
<td>50-00-0</td>
<td>0.75 ppm (TWA)</td>
<td>0.3 ppm (CEIL)</td>
<td>1%</td>
</tr>
<tr>
<td>Formaldehyde (Negative Control)</td>
<td>50-00-0</td>
<td>0.75 ppm (TWA)</td>
<td>0.3 ppm (CEIL)</td>
<td>1%</td>
</tr>
<tr>
<td>Thimerosal (Wash Concentrate)</td>
<td>54-64-8</td>
<td>0.1 mg/m³ (TWA) skin</td>
<td>0.025 mg/m³ (TWA) skin</td>
<td>0.4%</td>
</tr>
<tr>
<td>Formaldehyde (Mounting Media)</td>
<td>50-00-0</td>
<td>0.75 ppm (TWA)</td>
<td>0.3 ppm (CEIL)</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

Section IV - First Aid Measures

Inhalation: Unlikely to be a problem. Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse thoroughly with running water. Get medical advice if irritation develops.
Section V - Fire Fighting Measures

*Flash point*: Not applicable.
*Flammable Limits*: Not applicable.
*Fire*: Not normally a fire hazard.
*Explosion*: Not normally an explosion hazard.
*Fire Extinguishing Media*: Any means suitable for surrounding fire.
*Special Information*: Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits*: See section III.
*Ventilation System*: Usually not required. When required, refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.
*Personal Respirator*: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.
*Skin Protection*: Protective gloves are not required but recommended as part of good laboratory practice.
*Eye Protection*: Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

*Boiling Point*: 100°C
*Vapor pressure (mm Hg)*: 18 @ 20°C
*Vapor Density (air = 1)*: 0.6
*Appearance and Odor*: A clear, colorless liquid.

*Density*: 1.0 g/ml
*Evaporation Rate (water = 1)*: 1
*Solubility*: Infinitely miscible with water

Section X - Stability and Reactivity

*Stability*: Freezes at low temperature.
*Hazardous Decomposition Products*: Nothing unusual.
*Hazardous polymerization*: Will not occur.
*Incompatibilities*: Nothing unusual.
*Conditions to avoid*: Excessive cold/heat and light.

Section XI - Toxicological Information

None relating to normal exposure.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>2A</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>none</td>
</tr>
<tr>
<td>Thimerosal</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>3</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information

*Environmental Fate*: Biodegradable
*Environmental Toxicity*: Unknown
Section XIII - Disposal Considerations

Waste disposal is usually not restricted but local ordinances vary. Insure compliance with all government regulations.

Section XIV - Transportation Information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Thimerosal</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RQ</td>
<td>TPQ</td>
<td>List</td>
<td>Category</td>
</tr>
<tr>
<td>Chemical Weapons Convention</td>
<td>No</td>
<td>TSCA 12(b): No</td>
<td>CDTA: No</td>
<td></td>
</tr>
<tr>
<td>SARA 311/312: Acute: No, Chronic: No, Fire: No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section XVI - Other Information

This information is believed to be correct but is not warranteed as such, nor does it purport to be all inclusive.

Revision Date: May 28, 2013