**MATERIAL SAFETY DATA SHEET**

**IDENTIFICATION AND EMERGENCY INFORMATION**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Tissue Freezing Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code (Catalog Number)</td>
<td>TFM-C (Catalog Number change only, previously H-TFM)</td>
</tr>
<tr>
<td>Product Category (Chemical Name)</td>
<td>Frozen Embedding Matrix</td>
</tr>
<tr>
<td>Product Appearance and Odor</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Emergency Notification</td>
<td>Chem-Tel 1-800-255-3924</td>
</tr>
</tbody>
</table>

**COMPONENTS AND HAZARD INFORMATION**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>%</th>
<th>OSHA TWA ppm</th>
<th>OSHA STEL ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/m³</td>
<td>mg/m³</td>
</tr>
</tbody>
</table>

This product has no hazards declarable under 29CFR, 1200.

PSI Hazard Code A2g

**PHYSICAL DATA**

THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.

<table>
<thead>
<tr>
<th>Boiling Range</th>
<th>Specific Gravity</th>
<th>Molecular Weight</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Volatile by Volume</td>
<td>Vapor Pressure @20 C degrees</td>
<td>Vapor Density (Air = 1)</td>
<td>Pour, Congealing or Melting Point</td>
</tr>
</tbody>
</table>

Solubility in Water @1 ATM and 25°C (77°F) soluble

Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1) pH

**FIRE AND EXPLOSION HAZARD INFORMATION**

<table>
<thead>
<tr>
<th>Flash Point (Minimum)</th>
<th>Autoignition Temperature</th>
<th>Test Mode</th>
<th>LEL</th>
<th>UEL</th>
</tr>
</thead>
</table>

Handling Precautions

Flammable or Explosive Limits (Approximate Percent by Volume in Air)
This product is not a flammable solid.

*NA = not applicable  NL = not listed  NE = not established  NNR = not normally required*
### Extinguishing Media
Water, carbon dioxide, dry chemical powder, foam. Use medium necessary for surrounding fire.

### Fire Fighting Procedures
Firefighters must wear self-contained breathing apparatus and fully protective equipment.

### Decomposition Products Under Fire Condition

### “Empty” Container Warning

### Unusual Fire and Explosion Hazards
NE

### HEALTH AND HAZARD INFORMATION

### Variability Among Individuals

### Signs and symptoms of overexposure
This product is only harmful under unusual conditions or overwhelming dosage.

### Effects of Overexposure

### Nature of Hazard and Toxicity Information

### Pre-existing Medical Conditions which may be Aggravated by Exposure
NE

### Threshold Limit Value
NE

### Health Hazards
NE

### PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

#### Eye Contact
Flush eyes with water for at least 15 minutes.

#### Skin
Wash affected area with soap and water, then with water.

#### Inhalation
Do not inhale.

#### Ingestion
Do not ingest. SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.
### Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Incompatibility</th>
<th>Hazardous Decomposition Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>NE</td>
<td>Hazardous Polymerization Will not occur</td>
<td>Materials to Avoid</td>
</tr>
</tbody>
</table>

### Environmental Information

**Steps to be Taken in Case Material is Released or Spilled**
Mop up spilled material, wash and ventilate the site.

**Disposal**
Flush waste materials down the drain or incinerate. Must comply with local, state, and federal regulations.

**Protective Gear**

**Precautions to be taken in handling and storage**
Store materials at room temperature. Keep storage container tightly closed.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.

**Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)**

**Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)**

**Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)**

**Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)**

### Protection and Precautions

**Ventilation**
Normal room ventilation

**Respiratory Protection**
None

**Protective Gloves**
Optional

**Eye Protection**
Optional

**Other Protective Equipment**
Safety shower, eye bath

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<table>
<thead>
<tr>
<th>TRANSPORTATION AND OSHA RELATED LABEL INFORMATION</th>
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<tbody>
<tr>
<td>Transportation Incident Information</td>
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<tr>
<td>U.S. DOT Hazardous Materials Shipping Description</td>
</tr>
<tr>
<td>OSHA Required Label Information</td>
</tr>
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