

Date Issued: **November 19, 2008**Supersedes Date: **October 6, 2005****MATERIAL SAFETY DATA SHEET**

| IDENTIFICATION AND EMERGENCY INFORMATION | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------|------------------------|--------------------------------------------------|------------------|-------------------|
| Product Name | | TFM™ Tissue Freezing Medium | | | | |
| Product Code (Catalog Number) | | TFM-C (clear) | | | | |
| Product Category (Chemical Name) | | Frozen Embedding Matrix | | | | |
| Product Appearance and Odor | | Translucent Liquid | | | | |
| Emergency Notification | | Chem-Tel 1-800-255-3924 International 813-248-0585 | | | | |
| COMPONENTS AND HAZARD INFORMATION | | | | | | |
| Component | CAS No. | % | OSHA TWA | | OSHA STEL | |
| | | | ppm | mg/m ³ | ppm | mg/m ³ |
| Poly(ethylene oxide) | 025322683 | <10 | NE | NE | NE | NE |
| Poly(vinyl alcohol) | 025213245 | <13 | NE | NE | NE | NE |
| Partially hydrolyzed water | 007732185 | <77 | NE | NE | NE | NE |
| PSI Hazard Code | | A2g | | | | |
| PHYSICAL DATA | | | | | | |
| THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES. | | | | | | |
| Boiling Range 212 F | Specific Gravity 1.03 | Molecular Weight NE | | Viscosity NL | | |
| Percent Volatile by Volume NA | Vapor Pressure @20 C degrees NA | Vapor Density (Air = 1) NA | | Pour, Congealing or Melting Point 32 F | | |
| 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 | | | | | | |
| Flash Point (Minimum) NA | Autoignition Temperature NA | | Test Mode NA | LEL NA | UEL NA | |
| Handling Precautions NA | | | | | | |
| 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

NE

“Empty” Container Warning

NA

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

Induce vomiting as directed by medical personnel

REACTIVITY

Stability

Stable

Incompatibility

NE

Hazardous Decomposition Products

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| Conditions to Avoid NE | Hazardous Polymerization Will not occur | Materials to Avoid |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------|
| 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 No special protection is indicated | | |
| 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) NL | | |
| Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304) NL | | |
| Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313) NL | | |
| Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312) NL | | |
| SPECIAL STATE NOTIFICATIONS | | |
| 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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| TRANSPORTATION AND OSHA RELATED LABEL INFORMATION |
|----------------------------------------------------------------|
| Transportation Incident Information NL |
| U.S. DOT Hazardous Materials Shipping Description NL |
| OSHA Required Label Information NL |

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