



Date Issued: **November 20, 2008**

Supersedes Date: **October 6, 2005**

MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
Product Name	TFM™ Tissue Freezing Medium Kit					
Product Code (Catalog Number)	TFM-5 (5-color kit): TFM-C (clear), TFM-Y (yellow), TFM-BL (blue), TFM-G (green), TFM-R (red)					
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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