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MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
Product Name	TMD™ Tissue Marking Dye Purple					
Product Code (Catalog Number)	TMD-P (Purple)					
Product Category (Chemical Name)	Dyes					
Product Appearance and Odor	Liquid of purple					
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
N,N-dimethylethanolamine	000108010	<2	NE	NE	NE	NE
2-Aminoethanol	000141435	<2	NA	6	NL	NL
Formaldehyde	000050000	<1	NL	2/15	NL	NL
Water	007732185	<66	NE	NE	NE	NE
PHYSICAL DATA						
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.						
Boiling Range >212	Specific Gravity 1.02	Molecular Weight NL		Viscosity NL		
Percent Volatile by Volume NE	Vapor Pressure @20 C degrees NE	Vapor Density (Air = 1) NE		Pour, Congealing or Melting Point 32 F		
Solubility in Water @1 ATM and 25°C (77°F) NE		Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1) NE			pH NE	
FIRE AND EXPLOSION HAZARD INFORMATION						
Flash Point (Minimum) NE	Autoignition Temperature NE		Test Mode	LEL NE	UEL NE	

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

National Fire Protection Association (NFPA) — Hazard Identification			
Health	Flammability	Reactivity	Basis
NL	NE	NE	
Handling Precautions Use standard safety precautions.			
Flammable or Explosive Limits (Approximate Percent by Volume in Air) NE			
Extinguishing Media Water, carbon dioxide, dry chemical powder, foam.			
Fire Fighting Procedures Firefighters must wear self-contained breathing apparatus and fully protective equipment. Fire water run-off should be diverted from adjacent waterways.			
Decomposition Products Under Fire Condition NE			
“Empty” Container Warning Use same applicable regulations as formaldehyde.			
Unusual Fire and Explosion Hazards Use water spray to disperse vapor.			
HEALTH AND HAZARD INFORMATION			
Variability Among Individuals NE			
Signs and symptoms of overexposure Chemical, physical and toxicological properties are not established for this material. Handle with the care required by good laboratory technique.			
Effects of Overexposure Continual contact of the skin may cause discoloration of skin in contact area.			
Nature of Hazard and Toxicity Information NL			
Pre-existing Medical Conditions which may be Aggravated by Exposure Conditions of the skin.			
Threshold Limit Value NL			
Health Hazards Possible skin irritant.			
Carcinogenicity NL			

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PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

Eye Contact

Flush eyes with water for at least 15 minutes while holding lids open. Do not remove contact lenses if worn. Contact physician immediately.

Skin

Wash affected area with copious amounts of water for at least 15 minutes. Wash contaminated clothing.

Inhalation

Remove to fresh air. Give oxygen or artificial respiration, as needed. Contact emergency personnel

Ingestion

Induce vomiting as directed by medical personnel.

SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.

REACTIVITY

Stability Stable	Incompatibility NE	Hazardous Decomposition Products NE
Conditions to Avoid High temperature	Hazardous Polymerization Will not occur	Materials to Avoid

ENVIRONMENTAL INFORMATION

Steps to be Taken in Case Material is Released or Spilled

Contain spilled liquid with non-combustible materials. This product contains formaldehyde (50-00-0) 0.05% of which is RCRA U122. Fire water run-off should be diverted from adjacent waterways.

Waste Disposal Method

Regualtions – RCRA U122 listed waste. Discard supplied material according to Federal Regulations (40 CFR 261). It is to be determined by the user whether material at the time of disposal is subject to RCRA restrictions.

Disposal

Responsibility for proper disposal of waste lies with the party generating the waste. Transportation, storage and disposal of waste material must comply with 40 CFR 262, 263, 264, 268 and 270. Check with all federal, state and local regulations for applicable requirements.

Protective Gear

Wear gloves, goggles and appropriate clothing during handling. Practice good hygiene.

Precautions to be taken in handling and storage

Store material at 25°C. Keep storage container tightly closed. Avoid contact with skin and eyes. Do not inhale dried material. Wash thoroughly after handling. Do not cut, grind, weld, or reuse container unless adequate measures are taken. Do not eat, drink or smoke in storage areas.

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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)
NE

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

Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)
Ammonia 7664-41-7 <2%

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

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable
NE	NE	NL	NL	NE	

SPECIAL STATE NOTIFICATIONS

California: This product contains a substance known to the state of California to cause cancer.

PROTECTION AND PRECAUTIONS

Ventilation
Mechanical ventilation sufficient to keep below TLVs

Respiratory Protection
OSHA/MHSA approved respirator if needed.

Protective Gloves
Rubber

Eye Protection
Safety goggles.

Other Protective Equipment
Safety shower, eye bath.

TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

Transportation Incident Information
NL

U.S. DOT Hazardous Materials Shipping Description
Non-Regulate, dye

OSHA Required Label Information
NL

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