

Section 1. Product and Preparation Information
Product Identifier
 Tissue Marking Dye, Red

Product Use
 Margin Identification

Date Prepared
 April 2011

Synonyms / Chemical Name
 None

Reorder Number(s): ESTMD-2R, ESTMD-8R

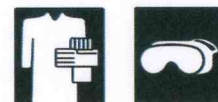
Manufacturer/ Preparer

 Azer Scientific
 189 Twin County Road
 Morgantown, PA 19543

 610-524-5810
 Fax: 610-901-3046
 Support: info@azersci.com

Emergency Contact
 Chemtrec USA and Canada 800.424.9300

Section 2. Protective Measures

Personal Protection
Eyes: Goggles
Hands: Latex or nitrile gloves
Body: Laboratory coat
Respiratory Wear: approved/certified respirator
 if airborne concentrations exceed exposure limits

Section 3. Hazardous Ingredients

Hazardous Ingredient	% wt.	CAS Number	LD50	LC50	TDG PIN
Ammonium Hydroxide	< 5	1336-21-6	N/A	N/A	N/A
Red Pigment Dispersion	< 15	1047-16-1	N/A	N/A	N/A
Isopropyl Alcohol	< 3	67-63-0	N/A	N/A	N/A

Section 4. First Aid Measures
Eye Contact: Flush eyes with flowing water for at least 15 minutes

Skin Contact: Wash skin with deluge of water for at least 15 minutes

Ingestion: Induce vomiting as directed by medical personnel

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

Section 5. Physical Data

Physical State Liquid	Appearance Red, slightly viscous liquid	Odor Threshold (ppm) N/A	Solubility Soluble in water	Auto-ignition Temp N/A
Vapor Pressure <1 mm Hg 25C	Vapor Density (air=1): 2.62	Evaporation Rate N/A	Boiling Point over 200°F	Flash Point CC over 200°F
pH 8.5-10	Specific Gravity 1.02-1.14	Coeff. Water/oil Dist. N/A	Melting Point N/A	Flammable Limits UEL: N/A LEL: N/A
Volatility/Vol (%) 60-70%	Flame Propagation Rate N/A	Flammability Classification N/A		

Section 6. Means to Extinguish

Flammability
N/A

Conditions
N/A

Fl. Pt - Auto Ignition - Flammable Limits
Fl. Pt—2.6/12.5% by volume

Explosivity

Not explosive under normal conditions of use. Vapors are heavier than air and may settle in low areas. Vapors may travel long distances to an ignition source and flash back explosively. Flame may be invisible. Not sensitive to impact. Probably will not accumulate static charge due to high electrical conductivity, however proper grounding during transfer is recommended.

Hazardous Combustion Products
N/A

Means to Extinguish

Small fire, use dry chemical powder. Large fire, use alcohol foam or fog

Section 7. Reactivity

Stability
Stable

Conditions to avoid
Temperature extremes

Hazardous Decomposition Products
Oxides of carbon (mono, di)

Conditions of Reactivity
N/A

Hazardous Polymerization
Will not occur

Incompatibility
Oxidizers

Section 8. Toxicological Properties

Routes of Entry Absorbed through the skin, eyes, inhalation and ingestion

Target Organs N/A

Effects of Acute Exposure

Eye May cause redness or irritation
Skin Prolonged use may cause irritation or defatting
Absorption May be absorbed through the skin, eyes
Inhalation Slightly hazardous if inhaled
Ingestion May cause blindness, nausea, damage to GI tract

Effects of Chronic Exposure Breathing of vapors may cause nasal and respiratory irritation, nausea, headaches, dizziness, pulmonary edema and pneumonitis. May cause damage to central nervous system. Prolonged use may cause skin irritation or defatting.

Carcinogenic Effects
N/A

Reproductive Toxicity
N/A

Teratogenic and Mutagenic Effects
N/A

Exposure Limits	OSHA PEL TWA	ACGIH TLV TWA	STEL	TWAEV (Ont.)	STEV (Ont.)	CEV (Ont.)
Ammonium Hydroxide	N/A	N/A	N/A	N/A	N/A	N/A
Red Pigment Dispersion	N/A	N/A	N/A	N/A	N/A	N/A
Isopropyl Alcohol	N/A	400ppm	N/A	N/A	N/A	N/A

Section 9. Regulatory Information

OSHA Hazardous
Non hazardous

Cal. Prop. 65
Not listed

Canadian WHMIS
N/A

RCRA Regulated
N/A

SARA 302/304
Not listed

SARA 313
Not listed

CERCLA 102A
Not listed

RQ
N/A

CWA 307
N/A

CWA 311
N/A

CAA 112 Release Prevention
N/A

CAA 112 Reg. Flam. Substance
N/A

CAA 112 Reg. Toxic Substance
N/A

TSCA Inventory
Listed

EEC Flammability
Not flammable

CEPA DSL
N/A

Proper US DOT Shipping Name
Not regulated

TDG Classification
Not listed

IATA Classification
Not listed

Limited Quantity
No

The information provided above is based upon unused product. Product characteristics may change after use, requiring further classification.