

## Section 1. Product and Preparation Information

**Product Identifier**  
Tissue Marking Dye, Black

**Product Use**  
Margin Identification

**Date Prepared**  
April 2011

**Synonyms / Chemical Name**  
None

**Reorder Number(s):** ESTMD-2BK, ESTMD-8BK

**Manufacturer/ Preparer**

Azer Scientific  
189 Twin County Road  
Morgantown, PA 19543

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

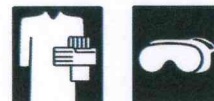
**Emergency Contact**  
Chemtrec USA and Canada 800.424.9300

## 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
Black Pigment Dispersion	< 15	1333-86-4	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

<b>Physical State</b> Liquid	<b>Appearance</b> Black, slightly viscous liquid	<b>Odor Threshold (ppm)</b> N/A	<b>Solubility</b> Soluble in water	<b>Auto-ignition Temp</b> N/A
<b>Vapor Pressure</b> <1 mm Hg 25C	<b>Vapor Density</b> (air=1): 2.62	<b>Evaporation Rate</b> N/A	<b>Boiling Point</b> over 200°F	<b>Flash Point CC</b> over 200°F
<b>pH</b> 8.5-10	<b>Specific Gravity</b> 1.02-1.14	<b>Coeff. Water/oil Dist.</b> N/A	<b>Melting Point</b> N/A	<b>Flammable Limits</b> UEL- N/A LEL:- N/A
<b>Volatility/Vol (%)</b> 60-70%	<b>Flame Propagation Rate</b> N/A	<b>Flammability Classification</b> 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
Black Pigment Dispersion	3.5mg	3.5mg	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.