

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tissue Marking Dye-Violet

**SYNONYMS:** None

PRODUCT CODES: ESTMD-2V, ESTMD-8V

MANUFACTURER: Azer Scientific, Inc.

ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

**CHEMTREC PHONE:** 800-424-9300

**SUPPORT:** 610-524-5810 **FAX:** 610-901-3046

**PRODUCT USE:** Laboratory reagent

**PREPARED BY: CB** 

**SECTION 1 NOTES:** 

### **SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:** Skin Corrosion/Irritation Category 2; Serious eye damage/irritation Category 2B; Acute Toxicity, Inhalation Category 4; Specific Target Organ Toxicity - single exposure Category 2; Specific Target Organ Toxicity - repeated exposure Category 2; Carcinogenicity Category 1



Signal Word: Danger!

Hazard Phrases	
H315	Causes skin irritation.
H320	Causes eye irritation.
H370	Causes damage to organs.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H350	May cause cancer.

Precautionary Phrases			
P202	Do not handle until all safety precautions have been read and understood.		
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.		
P280	Wear protective gloves/ eye protection/ face protection.		
P264	Wash hands thoroughly after handling.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
	present and easy to do. Continue rinsing.		
P301+P311	IF SWALLOWED: Call a POISON CENTER or doctor/physician.		
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.		
P307+P311	IF exposed: Call a POISON CENTER or doctor/ physician.		

#### **SECTION 2 NOTES:**



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### **CHEMICAL DESCRIPTION: Mixture**

- \*May contain additional non-hazardous proprietary ingredients.
- \*May contain additional active ingredients at concentrations < 0.1% w/v.

INGREDIENT:CAS NO.% volFormaldehyde50-00-0<1%</td>

Isopropyl Alcohol 67-63-0 Trade secret

#### **SECTION 3 NOTES:**

### SECTION 4: FIRST AID MEASURES

**EYES:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**SKIN:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If skin irritation occurs: Get medical attention/advice.

**INGESTION:** Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell.

# **SECTION 4 NOTES:**

### **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABILITY OF THE PRODUCT:

FLASH POINT: Not available

**AUTOIGNITION TEMPERATURE:** Not available

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

OTHER:

**HMIS HAZARD CLASSIFICATION** 

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**PROTECTION:** 

**EXTINGUISHING MEDIA:** Small fire - use DRY chemical powder. Large fire - use alcohol resistant foam, water spray or fog.

**NOT SUITABLE:** Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during

combustion.

**SECTION 5 NOTES:** 

# SECTION 6: ACCIDENTAL RELEASE MEASURES



#### **ACCIDENTAL RELEASE MEASURES:**

Small spill and leak: Dilute with water and mop, or absorb with an inert dry material and place in appropriate waste disposal container.

Large spill and leak: Keep away from heat and ignition sources. Stop leak if without risk. Absorb with DRY earth, sand, or other non-combustible material. Avoid skin and eye contact. Prevent entry into sewers, basements or confined areas; dike if needed. Ensure airborne concentrations of formaldehyde do not exceed published exposure limits. Additional protective equipment such as full-face respirator, full body suit and boots may be required. If airborne concentrations of formaldehyde exceed 7.5 ppm, only use SCBA or supplied air respirators.

#### **SECTION 6 NOTES:**

### **SECTION 7: HANDLING AND STORAGE**

HANDLING: Avoid contact with eyes and skin. Do not breathe vapor or mist. Avoid prolonged or repeated contact with skin. If potential for splashing exists, protect skin by using sleeve protectors, aprons and face-shield. Immediately remove contaminated clothing. Wash thoroughly after handling.

STORAGE: Keep containers closed and out of reach of children. Ground all equipment containing material. Store at room temperature.

**SECTION 7 NOTES:** In the United States, refer to OSHA 1910.1048 for requirements for handling/use of formaldehyde solutions.

# SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

**PERSONAL PROTECTIVE MEASURES:** Wear gloves, lab coat, eye protection and impervious footwear. Approved/certified respirator if airborne concentrations exceed exposure limits

**ENVIRONMENTAL EXPOSURE CONTROLS:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**WORK HYGIENIC PRACTICES:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

## **EXPOSURE GUIDELINES:**

## **OSHA Permissible Exposure Limits (PELs):**

Reagent	CAS#	OSHA PEL TWA
Formaldehyde	50-00-0	0.75 ppm (Ceiling)
Isopropyl Alcohol	67-63-0	400ppm (982 mg/m³)

#### **ACGIH Threshold Limit values (TLVs):**

Reagent	CAS#	ACGIH PEL TWA	ACGIH STEL
Formaldehyde	50-00-0	0.3 ppm (Ceiling)	2 ppm
Isopropyl Alcohol	67-63-0	200ppm (982 mg/m <sup>3</sup> )	400ppm (982 mg/m³)

# **SECTION 8 NOTES:**



APPEARANCE: Violet, opaque

ODOR: Ammonia like
PHYSICAL STATE: liquid
pH AS SUPPLIED: 7-10

**BOILING POINT:** Not Available

**VISCOSITY:** Not established

**MELTING POINT/FREEZING POINT:** Not Available

VAPOR PRESSURE (mmHg): Not Available VAPOR DENSITY (AIR = 1): Not Available EVAPORATION RATE: Not Available SOLUBILITY IN WATER: Not Available MOLECULAR WEIGHT: Mixture

**SECTION 9 NOTES:** 

#### SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

**CONDITIONS TO AVOID (STABILITY):** Stable under normal conditions of temperature and pressure. **INCOMPATIBILITY (MATERIAL TO AVOID):** Reactive with oxidizing materials, acids and alkalis.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal breakdown of this product during fire or very high heat

conditions may evolve the following decomposition products: oxides of carbon.

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

**CONDITIONS TO AVOID:** Heat, open flame

**SECTION 10 NOTES:** 

#### SECTION 11: TOXICOLOGICAL INFORMATION

# **ACUTE TOXICITY:**

Oral: Formaldehyde: LD50 (Oral, mouse) = 385 mg/kg; LD50 (Oral, rat) = 100 mg/kg

Inhalation: Formaldehyde: LC50 (Inhalation, mouse) = 454 mg/m3/4H

Dermal LD50:

Skin corrosion/irritation: Formaldehyde: Draize test, rabbit, skin: 2 mg/24H Severe

Eyes: Formaldehyde: Draize test, rabbit, eye: 750 ug/24H Severe

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available Carcinogenicity: (NTP, IARC, OSHA):

Formaldehyde: NIOSH: Classified proven ACGIH: Classified A2(suspected for human)

NTP: Classified 2(Reasonably anticipated) IARC: Classified A2(Probable for human)

Aspiration hazard: no data available

# POTENTIAL HEALTH EFFECTS

EYES: Hazardous in case of eye contact (irritant). May cause chemical conjunctivitis or corneal damage.

SKIN: Hazardous in case of skin contact (irritant, sensitizer). May cause skin sensitization which becomes evident upon reexposure.

INGESTION: Ingestion of dilute formaldehyde solutions (0.03-0.04 percent) may cause discomfort in the stomach and pharynx.

INHALATION: Dizziness, headache, nausea.

CHRONIC HEALTH HAZARDS: Effects may be delayed. Formaldehyde has been associated with nasopharyngeal cancers. Repeated exposure may cause skin discoloration and nail decay. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin exposure may cause defatting of the skin.



#### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Dermatitis, emphysema, bronchitis and conjunctivitis.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation eyes, skin, nose, mucous membrane; headache, dermatitis

ROUTES OF ENTRY: Skin/eye contact, inhalation

TARGET ORGANS: Respiratory system

**SECTION 11 NOTES:** 

### **SECTION 12: ECOLOGICAL INFORMATION**

**ECOLOGICAL TOXICITY:** 

Formaldehyde: LC50 Pimephales promelas (Fathead minnow) 24.1 mg/L/96 hr

**PERSISTANCE AND DEGRADABILITY:** Biodegradation is expected **BIOACCUMULATIVE POTENTIAL:** Bioaccumulation is unlikely.

MOBILITY IN SOIL: No data available PBT and vPvB ASSESSMENT: Not required.

**SECTION 12 NOTES:** 

#### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

**SECTION 13 NOTES:** 

### SECTION 14: TRANSPORT INFORMATION

**U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated** 

TDG: Not Regulated
IATA: Not Regulated
IMDG/IMP: Not Regulated

# **SECTION 15: REGULATORY INFORMATION**

**United States** 

HCS Classification: Toxic material, Irritating material, Target organ effects

**U.S. Federal regulations:** 

TSCA 8(a) IUR: Listed on inventory.

United States inventory (TSCA 8b): Listed on inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Acute Health Hazard; Chronic Health Hazard

SARA 313 Form R - Reporting: The following components are subject to reporting levels established

by SARA Title III: FORMALDEHYDE (CAS# 50-00-0)

**DEA List I & II Chemicals** 

(Precursor Chemicals): Not Listed

**CERCLA:** The RQ for the product (based on the RQ for Formaldehyde (6% maximum)) of 100 lbs, is 1,666 lbs. Report spills required under federal, state, and local regulations.





RTK STATES: Formaldehyde CAS#50-00-0 CA, MA, MN, NJ, PA, RI

#### California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. FORMALDEHYDE CAS-No. 50-00-0

**CANADA** 

WHMIS (Canada): Class D2-B: Toxic Material

**Canadian lists: CEPA Toxic substances:** The following components are listed: Formaldehyde

**Canadian ARET:** None of the components are listed.

Canadian NPRI: The following components are listed: Formaldehyde

Volatile organic compounds

**CEPA DSL / CEPA NDSL:** 

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted. **Japan inventory:** All components are listed or exempted.

**Korea inventory:** All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed

or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

# **SECTION 16: OTHER INFORMATION**

National Fire Protection Association (NFPA)



**DISCLAIMER:** This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

PREPARATION INFORMATION:

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