

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Azer Ink Marking Pen

SYNONYMS: None

PRODUCT CODES: ES-001

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: Label microscope slides & embedding cassettes

PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Skin Corrosion/Irritation Category 2; Serious eye damage/irritation Category 2B; Specific Target Organ Toxicity - repeated exposure Category 2; Carcinogenicity Category 2; Reproductive toxicity Category 1



Signal Word: Danger!

Hazard Phrases	
H315	Causes skin irritation.
H320	Causes eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.

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: Under the OSHA Hazard Communication Standard 1910.1200(c), this product falls into the category of "Article" as defined by OSHA. End users should be aware that as such the product "under normal conditions of use does not release more

than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.”

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION: Ink Mixture

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% w/w</u>
Carbon Black	1333-86-4	10-20
Isopropyl Alcohol	67-63-0	<1
Ammonia, anhydrous	7664-41-7	<1
Ethylene glycol	107-21-1	1-5
Water	7732-18-5	<1
1,2-Benzisotiazoline-3-one	2634-33-5	5

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 if irritation persists.

SKIN: In case of contact, flush skin with plenty of water. Get medical attention if irritation persists.

INGESTION: Not a likely source of exposure.

INHALATION: Move exposed person to fresh air. 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: 0 FLAMMABILITY: 0 REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Use extinguishing material suitable for surrounding fire.

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: N/A

Large spill and leak: N/A

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.

STORAGE: Store at room temperature.

SECTION 7 NOTES:

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.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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
Ammonia, anhydrous	7664-41-7	50ppm
Isopropyl Alcohol	67-63-0	400ppm (982 mg/m ³)
Carbon Black	1333-86-4	7 ppm (3.5 mg/m ³)

ACGIH Threshold Limit values (TLVs):

Reagent	CAS#	ACGIH PEL TWA	ACGIH STEL
Ammonia, anhydrous	7664-41-7	25ppm	35ppm
Isopropyl Alcohol	67-63-0	200ppm (982 mg/m ³)	400ppm (982 mg/m ³)
Carbon Black	1333-86-4	7.2 ppm (3.5 mg/m ³)	
Ethylene Glycol	107-21-1	39.4 ppm (100 mg/m ³)	

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Marking pen containing black ink

ODOR: Not available

PHYSICAL STATE: Ink - liquid

pH AS SUPPLIED: Not Available

BOILING POINT: Not Available

MELTING POINT/FREEZING POINT: Not Available

VAPOR PRESSURE (mmHg): Not Available

VAPOR DENSITY (AIR = 1): Not Available

EVAPORATION RATE: Not Available

SOLUBILITY IN WATER: Soluble

MOLECULAR WEIGHT: Mixture

VISCOSITY: Not established

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): Not available

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: Not available

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral: LD50 >5000 mg/kg (Calculated value)

Inhalation: LC50 >50mg/L (Calculated value)

Dermal LD50 >5000 mg/kg (Calculated value)

Skin corrosion/irritation: Information of Ammonia (anhydrous)

Eyes irritation: Information of Ammonia (anhydrous)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: (NTP, IARC, OSHA):

Carbon Black: 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: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: Not a likely source of exposure.

INHALATION: May cause irritation.

CHRONIC HEALTH HAZARDS: Not available

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Not available

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation eyes, skin

ROUTES OF ENTRY: Skin/eye contact, inhalation

TARGET ORGANS: Respiratory system

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY:

PERSISTENCE 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: Spent product -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: **Irritating material**

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:

SARA 313 Form R - Reporting: **No products were found**

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: Carbon Black CAS#1333-86-4 NJ, PA Ethylene Glycol CAS# 107-21-1 MA, NJ, PA, IL, RI
Ammonia, anhydrous CAS#7664-41-7 NJ, PA, MA

California Prop. 65



WARNING: This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer and Ethylene glycol which known to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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:

Prepared 09/27/2019