## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Schiff's Reagent
**SYNONYMS:** None
**PRODUCT CODES:** ES763, ES763-G

**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:** Biological Stain
**PREPARED BY:** CB

**SECTION 1 NOTES:**

## SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** Skin Irritation Category 2; Serious Eye Damage Category 1; Carcinogenicity Category 1B; Specific Target Organ Toxicity Category-single exposure Category 3

**Signal Word:** Danger!

| **Hazard Phrases** | |
|---|---|
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H390 | 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/ protective clothing/ eye protection/ face protection. |
| P301+ P330+ P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P337+P315 | If eye irritation persists: Get immediate medical advice/attention. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P307+P311 | IF exposed: Call a POISON CENTER or doctor/ physician. |

**SECTION 2 NOTES:**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT: | CAS NO. | % WT |
|---|---|---|
| Potassium metabisulfite | 16731-55-8 | <1 |
| Pararosaniline (C.I. Basic red 9) | 569-61-9 | <1 |
| Hydrochloric Acid | 7647-01-0 | <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 immediate medical attention.

**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. Get medical attention if irritation persists.

**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. Get medical attention immediately.

**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: 2 FLAMMABILITY: 0 REACTIVITY: 0**
**OTHER:**

**HMIS HAZARD CLASSIFICATION**
**HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0**
**PROTECTION: C**

**EXTINGUISHING MEDIA:** Use extinguishing media suitable for surrounding fire.
**NOT SUITABLE:** Do not use water jet.
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

**SECTION 5 NOTES:**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:**
**Small spill and leak:** Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.
**Large spill and leak:** Shut off all ignition sources. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal

according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**SECTION 6 NOTES:**

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store in cool, dry, ventilated area with tightly closed container.

**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.
**RESPIRATORY PROTECTION:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
**EYE PROTECTION:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles
**SKIN PROTECTION:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat
**HANDS:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Neoprene
**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:**

| Component | Source | Type | Value | Note |
|---|---|---|---|---|
| Hydrochloric Acid | NIOSH | TWA | 5 ppm | |
| Hydrochloric Acid | OSHA | TWA | 5 ppm | |
| Hydrochloric Acid | ACGIH | STEL | 2 ppm | |

**SECTION 8 NOTES:**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear
**ODOR:** pungent sulfur
**PHYSICAL STATE:** liquid
**pH AS SUPPLIED:** 2.0
**BOILING POINT:** ~212°F
**MELTING POINT:** Not available
**FREEZING POINT:** Not available

**VAPOR PRESSURE (mmHg):** Not available
**VAPOR DENSITY (AIR = 1):** Not available
**EVAPORATION RATE:** Not available
**SOLUBILITY IN WATER:** Soluble in water
**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):** Excessive heat
**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizing agents, organics
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of carbon, nitrogen, chlorine
**HAZARDOUS POLYMERIZATION:** No hazardous polymerization
**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:**

## SECTION 11: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

Oral LD50: no data available
Inhalation LC50: no data available
Dermal LD50: no data available
Other information on acute toxicity: no data available
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation
Eyes: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available
Carcinogenicity:
International Agency for Research on Cancer (IARC).
Hydrochloric Acid is listed as Group 3 – Not classifiable as to carcinogenicity in humans
Pararosaniline (C.I. Basic red 9) is listed as a Group 2B: Possibly carcinogentic to humans.
National Toxicology Program (NTP).
Pararosaniline (C.I. Basic red 9) Reasonably anticipated to be a human carcinogen
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available
Potential health effects
Inhalation: Harmful if inhaled. Causes respiratory tract irritation.
Ingestion: Harmful if swallowed.
Skin: May cause skin burns.
Eyes: Causes eye damage.

**SIGNS AND SYMPTOMS OF EXPOSURE:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
**ROUTES OF ENTRY:** Skin/eye contact, inhalation, and ingestion.
**TARGET ORGANS:** Liver, Kidney, Nerves, Heart

**SECTION 11 NOTES:**

## SECTION 12: ECOLOGICAL INFORMATION

**TOXICITY:** No data available
**PERSISTANCE AND DEGRADABILITY:** Biodegradation is expected
**BIOACCUMULATIVE POTENTIAL:** Bioaccumulation is unlikely.
**MOBILITY IN SOIL:** No data available

**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:** Irritant, Corrosive, Carcinogen

**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:
Hydrochloric Acid CAS# 7647-01-0

**DEA List I & II Chemicals**
**(Precursor Chemicals):** Not Listed

**CERCLA:** Not Applicable

**RTK STATES:** Pararosaniline (C.I. Basic red 9) CAS#569-61-9: NJ, MA, MN Hydrochloric Acid CAS#7647-01-0: PA, NJ, RI, MN, MA
Potassium metabisulfite CAS#16731-55-8: PA, NJ, RI, MN, MA

**California Prop. 65**
WARNING! This product contains a chemical known to the State of California to cause cancer: Pararosaniline CAS#569-61-9

**CANADA**
**WHMIS (Canada):** Class E: Corrosive
Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists:** **CEPA Toxic substances:** The following components are listed: None

**Canadian ARET:** None of the components are listed.
**Canadian NPRI:** The following components are listed:

**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 (U.S.A.)**


**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.

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