

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Potassium Permanganate Solution (5%)

**SYNONYMS:** None

**PRODUCT CODES:** Component of Hepatitis B Stain Kits-ES4810

**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 Irritation Category 2; Eye Irritation Category 2; Acute Aquatic Toxicity (Category 2); Chronic Aquatic Toxicity (Category 2); Oxidizing liquid Category 2



**Signal Word:** Warning!

Hazard Phrases	
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.
H272	May intensify fire; oxidizer.

Precautionary Phrases	
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+P313	If eye irritation persists: Get medical advice/attention.
P273	Avoid release to the environment.

### 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 <1% w/v**

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Potassium Permanganate	7722-64-7	≤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 for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical if irritation develops.

**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 symptoms worsen.

**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: B**

**EXTINGUISHING MEDIA:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

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

**SPECIAL FIRE FIGHTING PROCEDURES:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not available for mixture

**SECTION 5 NOTES:** Development of hazardous combustion gases or vapors possible in the event of fire.

**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. Do not allow product to enter drains.

**Large spill and leak:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. 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).

**SECTION 6 NOTES:**

**SECTION 7: HANDLING AND STORAGE**

**HANDLING:** Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing vapor.

**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in a well-ventilated area. Store at 15-30°C

**SECTION 7 NOTES:**

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Working areas should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentration of vapors below their respective threshold limits.

**RESPIRATORY PROTECTION:** Avoid breathing vapor. No special PPE required if ventilation adequate.

**EYE PROTECTION:** Safety glasses or goggles are required.

**SKIN PROTECTION:** Chemical resistant gloves are required. Glove material must be resistant to the components of this product.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Protective clothing is required, lab coat or apron.

**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. Ensure that eyewash stations and safety showers are close to the workstation location.

**EXPOSURE GUIDELINES:** The product does not contain any relevant quantities of materials with critical values that require monitoring at the workplace.

**SECTION 8 NOTES:**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Dark purple

**ODOR:** Odorless

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** Not available

**BOILING POINT:** Not available

**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, direct sunlight

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong reducing materials, peroxides, zinc, copper

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon dioxide, carbon monoxide, Oxides of potassium, oxides of manganese.

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:**

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

Numerical Measures: No data available

Carcinogenicity: No components are classified as 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 May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure:

Irritation eyes, skin

**ROUTES OF ENTRY:** Skin/eye contact and ingestion.

**TARGET ORGANS:** Not available

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY:**

Fish: Potassium permanganate: LC50 - Oncorhynchus mykiss 0.3 - 0.6mg/L 96hr

Crustacea: No relevant studies identified.

Algae/Aquatic Plants: No relevant studies identified.

Other Organisms: Potassium permanganate: EC50 - Daphnia magna 0.84mg/L 48hr

**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**

<b>UN No.</b>	UN3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium permanganate)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III

<b>IATA</b>	
<b>UN No.</b>	UN3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium permanganate)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III

<b>IMDG/IMP</b>	
<b>UN No.</b>	UN3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium permanganate)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	Yes

## SECTION 15: REGULATORY INFORMATION

### United States

**HCS Classification:** Aquatic toxicity

**U.S. Federal regulations:**

**TSCA 8(a) IUR:** Partial exemption

**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:** No products were found.

**SARA 313 Form R - Reporting:**

### DEA List I & II Chemicals

**(Precursor Chemicals):** Not Listed

**RTK STATES:** Potassium Permanganate CAS# 7722-64-7 CA, MA, MN, NJ, PA

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

### CANADA

**WHMIS (Canada):** Class C: Oxidizing Material  
Class D2B: Toxic material causing other toxic effects.

### 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:

Potassium Permanganate CAS# 7722-64-7

### 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.

## 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.

**PREPARATION INFORMATION: Prepared 09/29/2015 REV1**

**Reviewed 09/19/2017**