

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Potassium Permanganate Solution (1%)

SYNONYMS: None

PRODUCT CODES: ES3403-125PPE, Component of Stain Kits ES3403, ES4818

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: Acute Aquatic Toxicity (Category 2); Chronic Aquatic Toxicity (Category 2); Oxidizing liquid Category 2



Signal Word: Warning!

Hazard Phrases	
H411	Toxic to aquatic life with long lasting effects.

Precautionary Phrases	
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

INGREDIENT:CAS NO.% WTPotassium Permanganate7722-64-7≤1

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 develops.

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 develop.

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: 0 FLAMMABILITY: 0 REACTIVITY: 0

PROTECTION: B

EXTINGUISHING MEDIA: Use dry chemical, CO2, 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

UN No. UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium permanganate)

Hazard Class 9
Packing Group III

IATA

UN No. UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium permanganate)

Hazard Class 9





Packing Group

IMDG/IMP

UN No. UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium permanganate)

Hazard Class 9
Packing Group III
Marine Pollutant 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 07/14/2015 REV1 Reviewed 09/19/2017