Optik Hematoxylin DK Type 1

1. Identification

Product Name: Optik Hematoxylin DK
Synonyms: N/A
Recommended Use: Biological Stain
Supplier: Avantik
            32 Commerce Street
            Springfield, NJ 07081
            (800) 783-9424

Item #: RS4576-A
Restrictions on Use: N/A

In Case of Emergency:
Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

2. Hazards Identification

OSHA Hazard Classification(s):
Skin Irritation - Category 2
Eye Damage - Category 1
Specific Target Organ Toxicity (repeated exposure) - Category 2

Signal Word: Danger

Hazard Statement(s): Causes skin irritation. Causes serious eye damage. May cause damage to organs (kidney) through prolonged or repeated exposure.

Pictogram(s):

Precautionary Statement(s): Prevention: Wash body thoroughly after handling. Wear protective gloves. Wear eye protection, face protection. Do not breathe dust, vapors.

Response: If on skin: Wash with plenty of water. Specific treatment (see first aid section on this label). If skin irritation or rash occurs: Get medical attention. Take off all contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. Immediately call a doctor. Call a doctor if you feel unwell.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulations.

3. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS #</th>
<th>Concentration %</th>
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<tbody>
<tr>
<td>Ethylene Glycol</td>
<td></td>
<td>107-21-1</td>
<td>Trade Secret</td>
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<tr>
<td>Water</td>
<td></td>
<td>7732-18-5</td>
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<tr>
<td>Aluminum Salt(s)</td>
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4. First Aid Measures

Eye Contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Symptoms: Irritation eyes, nose, throat; headache, dizziness
Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.

5. Fire-Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water
Fire Hazards (Chemical): Not flammable.
Special Protective Equipment: Fire fighters should use self-contained breathing apparatus and protective clothing.
Precautions for Firefighters: Fire fighters should use self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.
Protective Equipment: See section 8
Environmental Precautions: Prevent release to the environment by using barriers.

7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product.
Storage: Store locked up. Store in a cool, well ventilated place. Keep away from sparks and open flame. Keep container tightly sealed when not in use.

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>OSHA PEL TWA</th>
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ACGIH Threshold Limit Values (TLVs):

<table>
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<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>ACGIH PEL TLV</th>
<th>ACGIH STEL</th>
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<tbody>
<tr>
<td>N/A</td>
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Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.
Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.
Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section

Appearance: Dark Violet, Liquid
Molecular Weight: N/A
Molecular Formula: N/A
pH: 2.2-2.4
Boiling Point and Boiling Range: N/A
Melting Point/Freezing Point: N/A
Flash Point: N/A
Specific Gravity/Relative Density: N/A
Odor: N/A
Odor Threshold: N/A
Color: Dark Violet
Flammability (solid/gas): N/A
Vapor Density: N/A
10. Stability and Reactivity

Reactivity:
Chemical Stability: Stable
Conditions of Stability/Instability: Stable under normal conditions of temperature and pressure.
Stabilizers needed: None
Safety issue indicated by appearance change: N/A
Other: N/A
Hazardous Reactions: N/A
Hazardous Polymerization: Does not occur
Conditions to avoid: N/A
Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases
Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide) may be released in a fire.

11. Toxicological Information

Likely Routes of Exposure
Eyes: Iritation. May cause permanent damage.
Skin: Prolonged exposure may cause irritation, redness, swelling, drying.
Inhalation: Dizziness, headache. Irritation to nose, throat, mucous membranes and respiratory system.
Ingestion: Nausea. May cause gastrointestinal irritation and diarrhea. Prolonged ingestion may cause damage to kidneys.

Signs or Symptoms of Exposure: Nausea.
Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache, dizziness, nausea.
Acute Toxicity (Numerical Measures): Select Glycol: LD50 (oral, cat) = 1650 mg/kg ; Glacial Acetic Acid: LD50 (rabbit, skin) = 1060mg/kg ; Select Acid: LC50 (inhalation, mouse) = 5620 ppm/1H
Carcinogenicity (NTP, IARC, OSHA): N/A

12. Ecological Information

Ecotoxicity: N/A
Persistence and degradability: N/A
Bioaccumulation Potential (octanol-water partition coefficient, BCF): N/A
Mobility in the soil: N/A
Adverse Environmental Effects: May have adverse environmental affects.

13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities*
Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.*
Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*
Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*
Waste Stream: Consult your local or regional authorities.

14. Transport Information
UN Number: Not regulated
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group Number:
Environmental Hazards (IMDG code):
Marine Pollutant:
Transport in Bulk (IBC Code):
Special Transport Precautions:

15. Regulatory Information
OSHA:
DOT:
EPA:
CPSC:
16. Other Information

Revision Date: 08/21/2014

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