

**EMS CATALOG NO: 26040-05**  
**EMS PRODUCT: Ehrlich's Hematoxylin**  
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**PAGE NUMBER: One of 4**

**MATERIAL SAFETY DATA SHEET**

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

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PRODUCT NAME: **Ehrlich's Hematoxylin**

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**HAZARDOUS INGREDIENTS/IDENTITY INFORMATION % (optional)**

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**ETHYL ALCOHOL** (C<sub>2</sub>H<sub>5</sub>CH) CAS# 46-17-5 29.07%

SYNONYMS: Ethanol; alcohol anhydrous

TLV: 1000 ppm in air; 1800 mg/m<sup>3</sup> TXDS:(orl-rt)LD50: 13.7g/kg

**METHYL ALCOHOL** (CH<sub>3</sub>CH) CAS# 67-56-1 1.53%  
 SYNONYMS: Wood alcohol; methanol; carbinol; methylol; wood spirit  
 TLV: 260mg/m<sup>3</sup>(200ppm) LD50(oral-rat) (mg/kg)-5628  
 STEL: 310mg/m<sup>3</sup>(250ppm) LD50(ipr-rat) (mg/kg)-9540  
 PEL: 260mg/m<sup>3</sup>(200ppm) LD50(scu-mus) (mg/kg)-9800

**ALUMINUM AMMONIUM SULFATE**, 12-Hydrate CAS# 7784-26-1 0.97%  
 AlNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>-12-H<sub>2</sub>O  
 SYNONYMS: Ammonium Alum  
 TOXICITY: oral-rat LD50 - 2750 mg/kg

**HEMATOXYLIN**, certified C<sub>16</sub>H<sub>14</sub>O<sub>6</sub> CAS# 517-28-2 0.64%  
 RTECS# MH7875000 C.I. 75290  
 SYNONYMS: 7, 11b-Dihydrobenz[b]indeno[1,2-d] pyran-3,4,6a,9,10<6H>-  
 pentol; natural black 1  
 TOXICITY: oral-rat 400mg/kg - 26 weeks continuous

**GLYCERINE** (C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>) CAS# 56-81-5 32.2%  
 SYNONYMS: Glycyl alcohol; Glycerol; Glycerin USP, Glycerol  
 TOXICITY: oral-rat LD50 - 17 -27.2 gm/kg  
 dermal-rbt - 500mg/24 HR MCD.

**SODIUM IODINE**, (NaIO<sub>3</sub>) CAS# 7681-55-2 0.06%  
 RTECS# NN1400000  
 SYNONYMS: Iodic Acid; Sodium Salt  
 TOXICITY: ipr-mus LD50/119mg/kg ivn-mus LD50/108mg/kg

**ACETIC ACID, GLACIAL** (CH<sub>3</sub>COGH) CAS# 00064-19-7 3.2%  
 NIOSH/RTECS #AF1225000  
 SYNONYMS: Ethanoic Acid; Methane Carboxylic Acid; Ethylic Acid  
 TOXICITY DATA: LD50 (ORAL-RAT) (MG/KG) – 3310  
 LD50 (IV-MOUSE) (MG/KG) – 525  
 LD50 (SKIN-RABBIT) (MG/KG) – 1060  
 THRESHOLD LIMIT VALUE: (TLV/TWA): 25MG/M<sup>3</sup> (10PPM)  
 PERMISSIBLE EXPOSURE LIMIT( PEL: 37MG/M<sup>3</sup> (15PPM)  
 SHORT TERM EXPOSURE LIMIT(STEL):MG/M<sup>3</sup> (15PPM)

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### PHYSICAL/CHEMICAL CHARACTERISTICS

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BOILING POINT: N/A  
 SPECIFIC GRAVITY(H<sub>2</sub>O=1): N/A  
 VAPOR PRESSURE(mmHg): N/A  
 MELTING POINT: N/A

VAPOR DENSITY(Air=1): N/A  
EVAPORATION RATE  
(Butyl acetate=1): N/A  
SOLUBILITY IN WATER: Yes  
APPEARANCE AND ODOR: Reddish purple-slight acetic acid odor.

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### **FIRE AND EXPLOSION HAZARD DATA**

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FLASH POINT(Method Used): Not flammable  
FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

#### **SPECIAL FIRE FIGHTING PROCEDURES:**

Firefighters should wear proper protective gear and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

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### **REACTIVITY DATA**

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STABLE: Yes

CONDITIONS TO AVOID: Light  
INCOMPATIBILITY(Materials to Avoid): Strong oxidizing agents;  
strong bases and metals.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon Monoxide; carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: N/A

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### **HEALTH HAZARD DATA**

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ROUTES OF ENTRY: Inhalation - Skin - Ingestion

HEALTH HAZARDS(Acute and Chronic): ***CORROSIVE! Hematoxylin is a CANCER***

***SUSPECT AGENT!***

Harmful if inhaled. Causes irritation. Ingestion may cause nausea or vomiting.

**CARCINOGENICITY:**

NTP?: N/A

IARC Monographs?: N/A

OSHA Regulated?: N/A

**SIGNS AND SYMPTOMS OF EXPOSURE:**

Irritation to skin, eyes or respiratory tract, nausea, vomiting

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N/A

**EMERGENCY AND FIRST AID PROCEDURES:**

**SKIN CONTACT:** Flush with copious amounts of water while removing contaminated clothing. Wash affected areas with soap and water.

**EYE CONTACT:** Flush with plenty of water for at least 15 minutes.  
**CALL A PHYSICIAN!**

**INHALATION:** Remove to fresh air. If not breathing, administer artificial respiration-if breathing is difficult, administer oxygen-CALL A PHYSICIAN!

**INGESTION: CALL A PHYSICIAN!**

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**PRECAUTIONS FOR SAFE HANDLING AND USE**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Wearing suitable protective gear, absorb spill on sand, earth or vermiculite. Scoop up and containerize for proper disposal.  
Wash spill area with water. **DO NOT CONTAMINATE WATERWAYS!.**

**WASTE DISPOSAL METHOD:** In accordance with all current local, State and Federal environmental regulations.

**OTHER PRECAUTIONS:** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash contaminated clothing before re-use. Do not breathe vapors; use with adequate ventilation.

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## CONTROL MEASURES

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RESPIRATORY PROTECTION(Specify Type):

Sufficient to prevent inhalation of mists and/or vapors.

VENTILATION: Local Exhaust

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Approved work clothes.

WORK/HYGIENIC PRACTICES: Avoid all routes of exposure.