

EMS CATALOG NO: 26041-05  
EMS PRODUCT: Harris' Hematoxylin  
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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: Harris' Hematoxylin

FORMULA: C16H14OS

CAS #: 517-28-2

SYNONYMS: Natural Black 1

TOXICITY DATA: Or1-rat: 400mg/kg 26 weeks continuous Equivocal  
Tumorigenic Agent Blood (Lymphoma including Hodgkins  
Disease.)

PLEASE NOTE! HEMATOXYLIN IS A CANCER SUSPECT AGENT!

Ammonium Aluminum Sulfate (AlNH4(SO4)2-12H2O)

CAS #: 7784-25-0 9.5%  
SYNONYMS: Ammonium Alum  
TOXICITY DATA: orl-rat LD50 - 2750mg/kg

Ethyl Alcohol (C<sub>2</sub>H<sub>5</sub>CH CAS# 46-17-5 66.50%  
SYNONYMS: Ethanol: alcohol anhydrous  
TLV: 1000ppm in air; 1880 mg/m<sup>3</sup>  
TXDS: (orl-rat) LD50: 13.7g/kg

Methyl Alcohol (CH<sub>3</sub>CH) CAS# 671-56-1 3.5%  
SYNONYMS: Wood alcohol; methanol; carbinol; methylol; wood spirit  
TLV: 250mg/m<sup>3</sup> (200ppm) LD50 (orl-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

Mercuric Oxide (Red) (HgO) ACS Reagent C.I. 77760 0.25%  
CAS # 21908-53-2 RTECS NO.: CW8750000  
SYNONYMS: Mercuric II Oxide, Red  
TOXICITY DATA: orl-rat LD50: 18 mg/kg skn-mus LD50: 315 mg/kg  
orl-mus LD50: 16 mg/kg irp-mus LD50: 4500 ug/kg  
ACGIH TLV - TWA 0.1 mg(Hg)/m<sup>3</sup>(skin)  
MSHA standard Air: TWA 0.05 mg (Hg)/m<sup>3</sup> DTLWS  
NIOSH Rel to Mercury, inorganic Air: 8H TWA 0.05 mg(Hg)/m<sup>3</sup> MMWR

MERCURIC OXIDE IS HIGHLY TOXIC!

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PHYSICAL/CHEMICAL CHARACTERISTICS

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BOILING POINT: NA  
VAPOR PRESSURE (mmHg.): NA  
VAPOR DENSITY (AIR=1): NA  
SPECIFIC GRAVITY (H<sub>2</sub>O=1): NA  
MELTING POINT: NA  
EVAPORATION RATE:  
(Butyl Acetate=1) NA  
SOLUBILITY IN WATER: Yes  
APPEARANCE/ODOR: Purple liquid.

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FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT (Method Used): NA  
FLAMMABLE LIMITS: NA LEL: UEL:  
EXTINGUISHING MEDIA: Use media appropriate for surrounding fire.  
SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear proper protective clothing and self contained breathing apparatus with full face shield operated in positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May emit toxic fumes when heated!

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REACTIVITY DATA

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STABLE: Yes

CONDITIONS TO AVOID: Sensitive to light

INCOMPATIBILITY (Materials to Avoid): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Mercury; Mercuric Oxide, Ammonia, oxides of sulfur

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

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HEALTH HAZARD DATA

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ROUTE(S) OF ENTRY: Inhalation - Skin - Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC): POISON!

Contains methanol and mercuric oxide. May be fatal if swallowed. Strong dye.

HEMATOXYLIN IS A CANCER SUSPECT AGENT! MERCURIC OXIDE IS HIGHLY TOXIC!

CARCINOGENICITY:

NTP? NA IARC Monographs?: NA OSHA Regulated?: NA

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation to skin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NA

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION!

SKIN CONTACT: Flush with plenty of water-remove contaminated clothing. Wash affected areas with soap & water. Wash contaminated clothing before reuse.

INHALATION: Remove to fresh air.

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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 gloves and suitable protective clothing. Absorb spill on sand, earth or vermiculite. Carefully sweep up and place into clean dry container. Wash spill area with water.

DO NOT CONTAMINATE WATERWAYS!!

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

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CONTROL MEASURES

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RESPIRATORY PROTECTION (SPECIFY TYPE):

VENTILATION: Local exhaust and Mechanical (general)

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Approved work clothes.

WORK/HYGIENIC PRACTICES: Use care when handling. Avoid contact with skin, eyes and clothing.