

EMS CATALOG NO: 26043-05,06 & 10  
EMS PRODUCT: Mayer's Hematoxylin  
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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PRODUCT NAME: Mayer's Hematoxylin

ALUMINUM AMMONIUM SULFATE, 12-HYDRATE 5%

CAS NO. 7784-26-1

FORMULA:  $AlNH_4(SO_4)_2 \cdot 12H_2O$

SYNONYMS: Ammonium Alum

NIOSH/RTECS NO: N/A

TOXICITY: Or1-rat LD50:2750 mg/kg

OSHA PEL: 2mg/M3 (TWA) soluble salts as Al

ACGIH TLV: 2mg/M3 (TWA) soluble salts as Al

CHLORAL HYDRATE DEA SCHEDULE IV ITEM 5%

CAS NO: 302-17-0

RTECS NO: FM8750000

SYNONYMS: 2,2,2,-Trichloro-1,1-Ethanediol

TOXICITY DATA: or1-hmn LDLO: 4mg/kg      unr-man LDLO: 103mg/kg  
                  or1-rat LD50:480mg/kg      ipr-rat LD50: 472mg/kg  
                  par-rat LD50:710mg/kg      or1-mus LD50: 1100mg/kg  
                  ipr-mus LD50:777mg/kg

CITRIC ACID, ANHYDROUS 0.1%  
CAS NO: 77-92-9  
FORMULA: HOC(CCCH) (CH2000H)2  
SYNONYMS: 2-Hydroxy-1,2,3,-Propanetricarboxylic Acid  
NIOSH/RTECS NO: GE7350000

TOXICITY: orl-mus LD50:5040mg/kg  
ipr-mus LD50: 961mg/kg  
scu-mus LD50:2700mg/kg

HEMATOXYLIN, certified 0.1%  
C.I. 75290 CAS#: 517-28-2  
FORMULA: C16H14O6  
SYNONYMS: 7,11b-Dihydrobenz(b)indeno(1,2-d)pyran-3,4,6a,9,  
10(6H)-pentol; Natural Black 1  
RTECS NO: MH7875000

TOXICITY DATA NOT AVAILABLE. HEMATOXYLIN IS A CANCER SUSPECT AGENT!

SODIUM IODATE 0.02%  
CAS NO: 7681-55-2  
FORMULA: NaIO3  
SYNONYMS: Iodic Acid; Sodium Salt  
RTECS NO: NN1400000  
TOXICITY DATA: lpr-mus LD50/119mg/kg 1vn-mus LD50:108mg/kg

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PHYSICAL/CHEMICAL CHARACTERISTICS

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BOILING POINT: N/A  
SPECIFIC GRAVITY(H2O=1): N/A  
VAPOR PRESSURE(mmHg.): N/A  
MELTING POINT: N/A  
VAPOR DENSITY(AIR=1): N/A  
EVAPORATION RATE: N/A (Butyl acetate=1)  
SOLUBILITY IN WATER: Yes  
APPEARANCE/ODOR: Dark purplish-red liquid; aqueous solution.

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FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT(Method Used): Not flammable  
FLAMMABLE LIMITS: LEL: UEL:

EXTINGUISHING MEDIA:  
Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters must wear proper protective gear 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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UNSTABLE \_\_\_ STABLE X

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (Materials to Avoid): N/A

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Ammonia, oxides of sulfur.

HAZARDOUS POLYMERIZATION: May Occur \_\_\_ Will Not Occur: X

CONDITIONS TO AVOID: N/A

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HEALTH HAZARD DATA

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ROUTE(s) OF ENTRY: Inhalation. Skin. Ingestion.

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEMATOXYLIN IS A CANCER SUSPECT AGENT!

Mayer's Hematoxylin is harmful if inhaled, swallowed or absorbed through skin—may cause drowsiness, gastritis, nausea, vomiting, and central nervous system depression.

CARCINOGENICITY:

NTP?: N/A IARC Monographs?: N/A OSHA Regulated?: N/A

SIGNS AND SYMPTOMS OF EXPOSURE: Respiratory irritation and/or allergic skin reaction.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: If swallowed and conscious, immediately give large amounts of water. Get medical attention!

INHALATION: If a person breathes in large amounts, move the exposed person to fresh air.

SKIN CONTACT: In case of contact, immediately wash skin with plenty of soap & water for at least 15 minutes.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

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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 clothing and gear, absorb spill with earth or vermiculite and containerize for proper disposal. Wash spill area with water.

**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. Avoid prolonged breathing of vapors. Mayer's Hematoxylin is air and light sensitive-store properly.

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**CONTROL MEASURES**

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**RESPIRATORY PROTECTION (Specify Type):**

**VENTILATION:**

Local Exhaust:	Yes	Special:	N/A
Mechanical (General):	Yes	Other:	N/A

**PROTECTIVE GLOVES:** Rubber

**EYE PROTECTION:** Safety goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Approved work clothes.

**WORK/HYGIENIC PRACTICES:** Use care when handling. Avoid all routes of exposure.