



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	Harleco, Hematoxylin	Product Code	632
Manufacturer	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	Effective Date	10/28/2004
		Print Date	10/5/2005

For More Information Call

856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym None.

Material Uses Laboratory Reagent

Chemical Family Dye Solution

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Hematoxylin	517-28-2	0.25
Aluminum Ammonium Sulfate, Dodecahydrate	7784-26-1	5
Thymol	89-83-8	0.25
Potassium Permanganate	7722-64-7	1.4
Water	7732-18-5	>94

Section 3. Hazards Identification

Physical State and Appearance Solid.

Emergency Overview CAUTION!
Handle in accordance with good laboratory, industrial hygiene and safety practices

Routes of Entry Ingestion.

Potential Acute Health Effects

Eyes No known effect on eye contact, rinse with water for a few minutes.

Skin No known effect on skin contact; rinse with water for a few minutes.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion No known acute effects of this product resulting from ingestion. Do not take internally.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

**Medical Conditions
Aggravated by
Overexposure:**

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Wear suitable protective clothing.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling Do not ingest. Wash thoroughly after handling.

Storage Keep in a well-ventilated place.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Safety glasses.

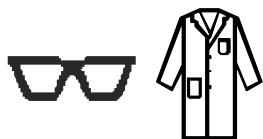
Body Lab coat.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Not applicable.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

Exposure Limits

Hematoxylin

Not available.

Aluminum Ammonium Sulfate, Dodecahydrate

Not available.

Thymol

Not available.

Potassium Permanganate

Belgium Minister of Labour (Belgium, 1998).

VL: 0.2 mg/m³ 8 hour(s).

BAUA (Germany, 1997).

Spitzenbegrenzung: 2 mg/m³

TWA: 0.5 mg/m³ 8 hour(s).

DK-Arbejdstylsinet (Denmark, 1996).

GV: 2.5 mg/m³ 8 hour(s).

Tyterveyslaitos (Finland, 1998).

TWA: 0.5 mg/m³ 8 hour(s).

INRS (France, 1996).

VME: 1 mg/m³ 8 hour(s).

National Authority for Occupational Safety/Health (Ireland, 1999).

OEL: 5 mg/m³ 8 hour(s).

Arbeidsinspectie (Netherlands, 1999).

TGG 15 min: 3 mg/m³ 15 minute(s).

TGG 8 uur: 1 mg/m³ 8 hour(s).

N-Arbejdstylsinet (Norway, 1996).

AN: 2.5 mg/m³ 8 hour(s).

AFS (Sweden, 1996).

NGV: 1 mg/m³ 8 hour(s).

EH40-OES (United Kingdom (UK), 1997).

TWA: 5 mg/m³ 8 hour(s).

ACGIH (United States, 1995).

TWA: 0.2 mg/m³ 8 hour(s).

OSHA Final Rule (United States, 1989).

CEIL: 5 mg/m³

Water

Not available.

Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	Not available.
Physical State and Appearance	Solid.
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	239.9°C (463.8°F) based on data for: Potassium Permanganate.
Specific Gravity	The only known value is 2.7 (Water = 1) (Potassium Permanganate).
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogK_{ow}	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Hematoxylin Aluminum Ammonium Sulfate Thymol Potassium Permanganate Water	MH7875000 Not available. XP2275000 SD6475000 ZC0110000
Toxicity	Acute oral toxicity (LD ₅₀): 1090 mg/kg [Rat]. (Potassium Permanganate).	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	May be hazardous in case of ingestion.	

Synergetic Products (Toxicologically)	Not available.
Irritancy	<u>Draize Test</u> : Not available.
Sensitization	Not available.
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.
Toxicity to Reproductive System	Not available.
Teratogenic Effects	Not available.
Mutagenic Effects	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number	Not available.
Treatment	Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact permitted waste disposer (TSD) to assure compliance with all Current local, State and Federal Regulations.

Section 14. Transport Information

DOT Classification	Not available.
TDG Classification	Not available.
IMO/IMDG Classification	Not available.
ICAO/IATA Classification	Not available.

Section 15. Regulatory Information

U.S. Federal Regulations	<p>TSCA 8(b) inventory: Hematoxylin; Aluminum Ammonium Sulfate, Dodecahydrate; Thymol; Potassium Permanganate; Water</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: Potassium Permanganate</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Potassium Permanganate: Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard</p> <p>SARA 313 toxic chemical notification and release reporting: Potassium Permanganate 1.4%</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: Potassium Permanganate</p> <p>Clean air act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean air act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean air act (CAA) 112 regulated toxic substances: No products were found.</p>
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WHMIS (Canada)	Not controlled under WHMIS (Canada).
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CEPA DSL: Hematoxylin; Thymol; Potassium Permanganate; Water

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS	Hematoxylin	208-237-3	
	Aluminum Ammonium Sulfate, Dodecahydrate		Not available.
	Thymol	201-944-8	
	Potassium Permanganate	231-760-3	
	Water	231-791-2	

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists Australia (NICNAS): Hematoxylin; Aluminum Ammonium Sulfate, Dodecahydrate; Thymol; Potassium Permanganate; Water

Japan (MITI): Hematoxylin; Thymol; Potassium Permanganate; Water

Korea (TCCL): Hematoxylin; Thymol; Potassium Permanganate; Water

Philippines (RA6969): Hematoxylin; Aluminum Ammonium Sulfate, Dodecahydrate; Thymol; Potassium Permanganate; Water

China: No products were found.

State Regulations

Pennsylvania RTK: Potassium Permanganate: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Potassium Permanganate

New Jersey: Harleco, Hematoxylin

California prop. 65: No products were found.

Section 16. Other Information

**National Fire
Protection
Association
(U.S.A.)**



**Changed Since Last
Revision**

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Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

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