



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	HARLECO® Hemacolor® Solution 3	Product Code	65044C
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	7/24/2003
		Print Date	5/3/2004

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 Solution.

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Potassium Phosphate, Monobasic	7778-77-0	<1
Sodium Phosphate, Dibasic	7558-79-4	<1
Methylene Blue	61-73-4	<1
Azure B	531-55-5	<1
Water	7732-18-5	>96

Section 3. Hazards Identification

Physical State and Appearance Liquid.

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

Routes of Entry Inhalation. 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.

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.

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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)	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling Avoid breathing vapors or spray mists.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protection

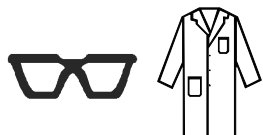
Eyes Safety glasses.

Body Lab coat.

Respiratory Not applicable.

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
Potassium Phosphate, Monobasic	Not available.
Sodium Phosphate, Dibasic	Not available.
Methylene Blue	Not available.
Azure B	Not available.
Water	Not available.

Section 9. Physical and Chemical Properties

Odor Odorless.

Color Purple.

Physical State and Appearance Liquid.

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH Not available.

Boiling/Condensation Point The lowest known value is 99.9°C (211.8°F) (Water).

Melting/Freezing Point May start to solidify at -0.1°C (31.8°F) based on data for: Water.

Specific Gravity Not available.

Vapor Pressure Not available.

Vapor Density Not available.

Odor Threshold Not available.

Evaporation Rate 0.36 (Water) compared to(n-Butyl Acetate =1)

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LogK_{ow} Not available.

Solubility Easily 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:	Potassium Phosphate	TC6615500
	Sodium Phosphate, Dibasic, Anhydrous	WC4500000
	Methylene Blue	SO5600000
	Azure B	SO5550000
	Water	ZC0110000

Toxicity LD₅₀: Not available.
LC₅₀: Not available.

Chronic Effects on Humans Not available.

Acute Effects on Humans Not available.

Synergetic Products (Toxicologically) Not available.

Irritancy Draize Test: 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 more 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 A 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 TSCA 8(b) inventory: Potassium Phosphate, Monobasic; Sodium Phosphate, Dibasic ; Methylene Blue; Water
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: Sodium Phosphate, Dibasic ; Methylene Blue
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Phosphate, Dibasic : Immediate (Acute) Health Hazard; Methylene Blue: Delayed (Chronic) Health Hazard
 SARA 313 toxic chemical notification and release reporting: No products were found.
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: Sodium Phosphate, Dibasic
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

CEPA DSL: Potassium Phosphate, Monobasic; Sodium Phosphate, Dibasic ; Methylene Blue; 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

Potassium Phosphate, Monobasic	231-913-4
Sodium Phosphate, Dibasic	231-448-7
Methylene Blue	200-515-2
Azure B	208-511-2
Water	231-791-2

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

International Lists Australia (NICNAS): Potassium Phosphate, Monobasic; Sodium Phosphate, Dibasic ; Methylene Blue; Azure B; Water
 Japan (MITI): Potassium Phosphate, Monobasic; Sodium Phosphate, Dibasic ; Methylene Blue; Water
 Korea (TCCL): Potassium Phosphate, Monobasic; Sodium Phosphate, Dibasic ; Methylene Blue; Water

Philippines (RA6969): Potassium Phosphate, Monobasic; Sodium Phosphate, Dibasic ;
Methylene Blue; Water
China: No products were found.

State Regulations

Pennsylvania RTK: Sodium Phosphate, Dibasic : (environmental hazard, generic environmental hazard)
Massachusetts RTK: Sodium Phosphate, Dibasic
New Jersey: HARLECO® Hemacolor® Solution 3
California prop. 65: No products were found.

Section 16. Other Information

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



**Changed Since Last
Revision**



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.