

# Material Safety Data Sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	May Grunwald Stain	<b>Product Code</b>	262
<b>Manufacturer</b>	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.	<b>Effective Date</b>	4/23/2003
		<b>Print Date</b>	2/13/2004

### 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** Analytical reagent.

**Chemical Family** Dye.

## Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Methylene Blue Chloride	61-73-4	>1
Eosin Y	17372-87-1	>1

## Section 3. Hazards Identification

**Physical State and Appearance** Solid. (Dry Stain)

**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.

Continued on Next Page

**Section 4. First Aid Measures**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	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**

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

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill and Leak</b>	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
<b>Spill Kit Information</b>	No specific spill kit required for this product.

**Section 7. Handling and Storage**

**Handling** Do not ingest. Wash thoroughly after handling.

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

**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**

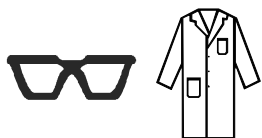
**Eyes** Safety glasses.

**Body** Lab coat.

**Respiratory** 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**

Methylene Blue Chloride  
Eosin Y

Not available.  
Not available.

**Section 9. Physical and Chemical Properties**

**Odor** Not available.

**Color** Not available.

**Physical State and Appearance** Solid. (Dry Stain)

**Molecular Weight** Not applicable.

**Molecular Formula** Not applicable.

**pH** Not available.

**Boiling/Condensation Point** Not available.

**Melting/Freezing Point** Not available.

**Specific Gravity** Not available.

**Vapor Pressure** Not available.

**Vapor Density** Not available.

**Odor Threshold** Not available.

**Evaporation Rate** Not available.

**LogK<sub>ow</sub>** Not available.

**Continued on Next Page**

**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** These products are halogenated compounds, hydrogen chloride.

**Hazardous Polymerization** Will not occur.

### Section 11. Toxicological Information

**RTECS Number:** Methylene Blue Chloride SO5600000  
Eosin Y (Yellowish) LM5850000

**Toxicity** Acute oral toxicity (LD<sub>50</sub>): 1180 mg/kg [Rat]. (Methylene Blue Chloride).

**Chronic Effects on Humans** Not available.

**Acute Effects on Humans** May be hazardous in case of ingestion.

**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 as toxic as 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: Methylene Blue Chloride; Eosin Y  
 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: Methylene Blue Chloride  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Methylene Blue Chloride: 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: No products were found.  
 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: Methylene Blue Chloride; Eosin Y

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** Methylene Blue Chloride 200-515-2  
 Eosin Y 241-409-6

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

**International Lists** Australia (NICNAS): Methylene Blue Chloride; Eosin Y

Japan (MITI): Methylene Blue Chloride; Eosin Y

Korea (TCCL): Methylene Blue Chloride; Eosin Y

Philippines (RA6969): Methylene Blue Chloride; Eosin Y  
 China: No products were found.

**State Regulations** New Jersey: May Grunwald Stain

California prop. 65: No products were found.

**Section 16. Other Information**

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



**Changed Since Last  
 Revision**



**Continued on Next Page**

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.*