Material Safety Data Sheet

Product No. 18725 Methylene Blue Chloride, Certified C.I. #52015

Issue Date (04-02-01)
Review Date (10-15-02)

Section 1: Product and Company Identification
Product Name: Methylene Blue Chloride, Certified C.I. #52015
Synonym: Basic Blue 9, Methylene Blue

Company Name
Ted Pella, Inc. and PELCO International, P.O. Box 492477, Redding, CA 96049-2477
Domestic Phone  (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL mg/m3</th>
<th>ACGIH TLV mg/m3</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Blue (7220-79-3)</td>
<td>~85</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification

Emergency overview
Appearance: Dark green crystals with bronze luster.
Immediate effects: Risk of serious injury to eyes. Harmful if swallowed: Target organs, Blood, Central Nervous System.

Potential health effects
Primary Routes of entry: Inhalation, Ingestion
Signs and Symptoms of Overexposure: May be harmful if swallowed. Prolong exposure may cause allergic reaction.
Eyes: Risk of serious injury to eyes
Skin: ND
Ingestion: May be harmful if swallowed
Inhalation: May be harmful if inhaled.
Chronic Exposure: NIF
Chemical Listed As Carcinogen Or Potential Carcinogen: Not listed
See Toxicological Information (Section11)

Potential environmental effects
See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected
Eye(s) Contact: Immediately flush thoroughly with water for at least 15 minutes. Seek medical attention.
Skin Contact: Wash thoroughly with soap and water. In severe cases obtain medical attention.
Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Seek medical
attention.
Ingestion: If conscious, drink water and induce vomiting, immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Note to physician**
Treatment: NIF
Medical Conditions generally Aggravated by Exposure:

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**Section 5: Fire Fighting Measures**
Flash Point: None
Flammable Limits: NA
Auto-ignition point: ND
Fire Extinguishing Media: Water spray, carbon dioxide, Dry chemical powder or appropriate foam.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: Emits highly toxic fumes on thermal decomposition
Hazardous combustion products: Nitrogen oxides, Sulfur oxides, Carbon oxides and Chloride compounds.
DOT Class: Not regulated.

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**Section 6: Accidental Release Measures**
Steps to be Taken in Case Material is Released or Spilled: Take up and containerize for proper disposal. Flush area thoroughly with water.
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

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**Section 7: Handling and Storage**
Precautions to be Taken in Handling and Storage: Keep container closed.
Storage temperature: Room Temperature.
Storage Pressure: NA

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**Section 8: Exposure Controls / Personal Protection**
**Engineering Controls**
Ventilation required: Material should be handled or transferred in approved fume hood or with adequate ventilation.

**Personal Protection Equipment**
Respiratory protection: NOISH/MSHA approved respirator.
Protective gloves: Protective gloves (polyethylene, PVA or equivalent ) should be worn to prevent skin contact.
Skin protection: Avoid contact, wash thoroughly after handling.
Eye protection: Wear chemical safety goggles.
Additional clothing and/or equipment: Safety shower and eye bath.
See Composition/Information on Ingredients (Section2)

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**Section 9 Physical and Chemical Properties**
Appearance and Physical State: Dark green crystals with bronze luster.
Odor (threshold): Odorless
Specific Gravity (H₂O=1): ND
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): ND
Percent Volatile by volume: ND
Evaporation Rate (butyl acetate=1): ND
Boiling Point: ND
Freezing point / melting point: ND

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http://www.tedpella.com/msds_html/18725msd.htm
pH: ND
Solubility in Water: 3.8%
Molecular Weight: 373.92

Section 10: Stability and Reactivity
Stability: Stable.
Conditions to Avoid: Extreme heat.
Hazardous Polymerization: Does not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: The chemical, physical and toxicological properties have not been thoroughly investigated. Test on laboratory animals indicate material may produce adverse mutagenic and reproductive effects
Human experience: ND
This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information
Ecological Information: ND
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: ND
Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information
US DOT Information: Proper shipping name: Not regulated.

Section 15: Regulatory Information
United States Federal Regulations
SARA: ND
SARA Title III: ND
RCRA: ND
TSCA: Section 8 (B) Chemical Inventory. Risk notification: 8EHQ-0892-8826. Test submission, data base January 2001.
CERCLA: ND
State Regulations
California Proposition 65: NIF
International Regulations
Canada WHMIS: NIF
Europe EINECS Numbers: EC NO: 200-515-2

Section 16: Other Information
Label Information:
European Risk and Safety Phrases: Harmful, R41; Risk of serious damage to eyes, R22; Harmful if swallowed, S26; In case of contact with eyes, rinse immediately with plenty of water and seek medical
advice, S39; Wear eye/face protection.
European symbols needed: NIF
Canadian WHMIS Symbols: NIF
Hazard Rating: Health: ND; Fire: ND; Reactivity: ND
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

**Abbreviations used in this document**
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

**Disclaimer**
Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

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