Material Safety Data Sheet

Product No. 18721 Hematoxylin, Certified, C.I. #75290
Issue Date (10-09-11)
Review Date (09-11-17)

Section 1: Product and Company Identification
Product Name: Hematoxylin, Certified, C.I. #75290
Synonym: Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol, 7,11b-dihydro-, (6aS,11bR), Natural Black 1, Hydroxybrasilin.
Company Name
Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day
CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours 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>Hematoxylin (517-28-2)</td>
<td>99-100</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification
Emergency overview
Appearance: Light tan to brown crystals.
Immediate effects: May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Potential health effects
Target Organs: None known
Primary Routes of entry: Inhalation, ingestion, skin and eye contact.
Signs and Symptoms of Overexposure: ND
Eyes: May cause irritation.
Skin: May cause skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.
Inhalation: May cause irritation to the respiratory tract irritation. May be harmful if inhaled.
Chronic Exposure: NIF
Chemical Listed As Carcinogen Or Potential Carcinogen: NIF
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 eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical aid if irritation persists.
Skin Contact: In case of contact, flush skin with plenty of water for at least 14 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of water or milk to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical aid immediately if irritation or symptoms appear.

**Note to physician**
Treatment: Treat symptomatically and supportively.
Medical Conditions generally Aggravated by Exposure:

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**Section 5: Fire Fighting Measures**
Flash Point: NA
Flammable Limits: NA
Auto-ignition point: NA
Fire Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Special Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Unusual Fire and Explosion Hazards: NIF
Hazardous combustion products: NIF
DOT Class: Not regulated.

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**Section 6: Accidental Release Measures**
Steps to be Taken in Case Material is Released or Spilled: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.
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: Light sensitive store protected from light. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use adequate ventilation. Keep container tightly closed. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.
Storage temperature: Store in a cool area.
Storage Pressure: NA

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**Section 8: Exposure Controls / Personal Protection**

**Engineering Controls**
Ventilation required: Use adequate ventilation to keep airborne concentrations low.

**Personal Protection Equipment**
Respiratory protection: respiratory protection program that meets OSHA’s 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
Protective gloves: Wear protective gloves.
Skin protection: Wear appropriate protective clothing to prevent skin exposure.
Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166
Additional clothing and/or equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Guidelines**
See Composition/Information on Ingredients (Section2)
Section 9 Physical and Chemical Properties
Appearance and Physical State: Light tan to brown crystalline powder.
Odor (threshold): ND
Specific Gravity (H:O=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: 100 °C (212 °F)
pH: ND
Solubility in Water: Slightly soluble in cold water. Soluble in hot water.
Molecular Weight: 302.27

Section 10: Stability and Reactivity
Stability: Stable under ordinary conditions of use and storage. Light sensitive. May discolor on exposure to light.
Conditions to Avoid: Light, dust generation, excess heat. Incompatible material.
Materials to Avoid (Incompatibility): Strong oxidizing agents
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrocarbons
Hazardous Polymerization: None reported.

Section 11: Toxicological Information
Results of component toxicity test performed:
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: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3
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.
Hazard Class: None
Packaging group: None
UN Number: None
IATA: Proper shipping name: Not regulated.
Hazard Class: None
Packaging group: None
UN Number: None
IMO: Proper shipping name: Not regulated.
Marine Pollutant: No
Canadian TDG: Not regulated.
Section 15: Regulatory Information

United States Federal Regulations
SARA: None
SARA Title III: None
RCRA: None listed
TSCA: Listed on TSCA Inventory.
CERCLA: No RQ

State Regulations
California Proposition 65: No
CAS # 517-28-2 is not present on state lists from CA, PA, MN, MA, FL or NJ

International Regulations
Canada WHMIS: CAS # 517-28-2 is not listed on Canada’s NDSL list. CAS # 517-28-2 is listed on Canada’s DSL list. CAS # 517-28-2 is not listed on Canada’s Ingredient Disclosure List
Europe EINECS Numbers: 208-237-3
RTECS: MH7875000

Section 16: Other Information

Label Information: Irritant.
European Risk and Safety Phrases: Risk: ND, Safety: S 24/25 Avoid contact with skin and eyes
European symbols needed: ND
Canadian WHMIS Symbols: D2B
NFPA Hazard Rating: Health: 1; Fire: 0; Reactivity: 0
(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

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