# **SPI Supplies Division**

Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA **Phone:** 1-(610)-436-5400 **Fax:** 1-(610)-436-5755

sales@2spi.com http://www.2spi.com

Manufacturer's CAGE: 1P573

# **Safety Data Sheet**

Date Effective: March 5, 2018

SPI Catalog # 02570-AB

SPI-Chem™ Haematoxylin (Ehrlichs) Stain Powder

## Section 1.1: Identification

Chemical Name/Synonyms ...... Haematoxylin Stain; Haematoxylin hydrate

Product or Trade Name ............. SPI-Chem™ Haematoxylin (Ehrlichs) Stain Powder for LM

CAS #'s ...... 517-28-2

Chemical Formula......C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>·H<sub>2</sub>O

## Section 1.2: Relevant Uses/Restrictions

Chemical stain for light microscopy.

## Section 1.3: Supplier of the Safety Data Sheet

SPI Supplies Division Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA **Phone:** 1-(610)-436-5400 **Fax:** 1-(610)-436-5755

sales@2spi.com http://www.2spi.com

Manufacturer's CAGE: 1P573

# Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s... Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

## Section 2: Hazard Identification

#### 2.1 Classification of the substance

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity (category 4)
Skin corrosion/ irritation (category 2)
Serious Eye Damage/ Eye Irritation (category 2A)
Page 1 of 9

#### 2.2 Label elements

#### Pictogram



Signal Word: Warning

#### **Hazard statements:**

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

### **Precautionary statements:**

- P264 Wash face, hands, and any exposed skin thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P271 Use only outdoors or in a well-ventilated area.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P362 Take of contaminated clothing and wash before reuse.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eve irritation persists: Get medical advice/ attention.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P330 Rinse mouth.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Other Hazards not otherwise classified (HNOC): None identified.

### **Hazardous Material Information System USA (estimated)**

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	

#### NFPA Rating (estimated)

Health	2
Flammability	1
Reactivity	

# Section 3: Composition

#### 3.1 Substance:

Haematoxylin hydrate CAS No. 517-28-2 EINECS No. 208-237-3 ~100 %

### Section 4: First Aid Measures

#### 4.1 Description of first aid measures:

General Advice: If symptoms persist, call a doctor/ physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Seek medical attention.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention.

**Ingestion:** Clean mouth with water and drink plenty of water afterwards. Give nothing by mouth to an unconscious person. Seek medical attention if symptoms occur.

- 4.2 Most important symptoms and effects, both acute and delayed: None reasonably foreseeable.
- 4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

# Section 5: Fire Fighting Measures

#### 5.1 Extinguishing media:

Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture:

Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products: Carbon monoxide, Carbon dioxide

#### 5.3 Advice for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

#### 6.1 Personal precautions:

Ensure adequate ventilation.

Use personal protective equipment.

Avoid dust formation.

#### 6.2 Environmental precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

## 6.3 Methods and material for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections:

See Section 13 for disposal information.

# Section 7: Handling and Storage

#### 7.1 Precautions for safe handling:

Wear personal protective equipment.

Ensure adequate ventilation.

Avoid dust formation.

Do not get in eyes, on skin, or on clothing.

Avoid ingestion and inhalation.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry, cool, and well-ventilated place.

#### 7.3 Specific end uses:

Chemical stain for light microscopy.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

# Section 8: Exposure Controls and Personal Protection

### 8.1 Control parameter and Personal Protection:

#### Workplace exposure limits:

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological limit values: No data available.

#### 8.2 Exposure controls:

#### 8.2.1 Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

## 8.2.2 Individual protection measures:

#### Eye/face 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 EN166. Tightly fitting safety goggles.

#### Skin and body protection:

Long sleeved clothing.

#### Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### 8.2.3 Environmental exposure controls:

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties:

Appearance: Amber colored solid powder

Odor: No data available

Odor threshold: No data available

**pH:** No data available

Melting point/Freezing point: 100-120 °C (212-248 °F)

Boiling point/Boiling point range: No data available

Flash Point: No data available

Evaporation rate: Not applicable

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor Pressure: Negligible
Vapor density: Not applicable

Specific gravity: No information available

Solubility: Soluble in hot water

Partition coefficient (n-octanol/water): No data available

**Auto-ignition temperature:** No data available **Decomposition temperature:** No data available

Viscosity: Not applicable

**Explosive properties:** No data available **Oxidizing Properties:** No data available

Molecular formula: C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>·H<sub>2</sub>O

Molecular weight: 302.27

**9.2 Other information:** No additional information available.

# Section 10: Stability and Reactivity

**10.1 Reactivity:** None known, based on information available.

10.2 Chemical Stability: Stable under normal conditions.

**10.3 Possibility of Hazardous Reactions:** None under normal processing.

**10.4 Conditions to avoid:** Incompatible products. Excess heat. Avoid dust formation.

10.5 Incompatible materials: Strong oxidizing agents.

**10.6 Hazardous decomposition products:** Carbon monoxide; Carbon dioxide.

# Section 11: Toxicological Information

Information on the likely routes of exposure:

- 11.1 Information on toxicological effects:
- A. Acute toxicity:

Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol,7,11b-dihydro-, cis-(+)- CAS# 517-28-2 LD50 (Rat) 400 mg/kg

- B. Skin corrosion/irritation: No information available.
- C. Serious eye damage/irritation: No information available.
- **D. Respiratory or skin sensitization:** No information available.
- **E. Germ cell mutagenicity:** No information available.
- F. Carcinogenicity:

Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol,7,11b-dihydro-, cis-(+)- CAS# 517-28-2 Not listed by IARC, NTP, ACGIH, OSHA, MEXICO

- G. Reproductive toxicity: No information available.
- H. STOT-single exposure: Respiratory system.
- I..STOT-repeated exposure: None known.
- **J. Aspiration hazard:** No information available.

**Other adverse effects:** Tumorigenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated.

# Section 12: Ecological Information

- **12.1 Toxicity:** Do not empty into drains.
- 12.2 Persistence and degradability: Soluble in water. Persistence is unlikely based on information available.
- **12.3 Bio-accumulative potential:** No information available.
- **12.4 Mobility in soil:** Mobility is likely, due to solubility in water.
- **12.5 Results of PBT and vPvB assessment:** No information available.
- 12.6 Other adverse effects: No information available.

# Section 13: Disposal Considerations

**Waste Disposal Methods:** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# Section 14: Transport Information

**DOT:** Not regulated. IATA: Not regulated. **IMDG:** Not regulated.

# Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:

#### U.S. Federal Regulations:

TSCA: CAS # 517-28-2 is listed on the TSCA Inventory.

TSCA 12(b): Not applicable

SARA 313: Not applicable

### SARA 311/312 Hazard Categories:

Acute Health Hazard: ves Chronic Health Hazard: no Fire Hazard: no Sudden Release of Pressure Hazard: no Reactive Hazard: no

CWA (Clean Water Act): Not applicable.

Clean Air Act: Not applicable.

OSHA Occupational Safety and Health Administration: Not applicable.

**CERCLA:** Not applicable.

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations: Not applicable.

#### U.S. Department of Transportation:

Reportable Quantity (RQ): no DOT Marine Pollutant: no

DOT Severe Marine Pollutant: no

#### **U.S. Department of Homeland Security:**

This product does not contain any DHS chemicals.

#### Other International Regulations:

#### **International Inventories:**

Listed on DSL, PICCS, ENCS, AICS, IECSC, KECL.

Mexico - Grade: No information available.

15.2 Chemical Safety Assessment: Has not been carried out.

Date of Preparation: 05 March 2018

#### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulative and Toxicological vPvB: very Persistent and very Bio-accumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health ATE: Acute Toxicity Estimates TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit STEL: Short Term Exposure Limit

CEIL: Ceiling

## Section 16: Other Information

#### **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof, however SPI Supplies and Structure Probe, Inc. make no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assume no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. Be aware of the Structure Probe, Inc. Copyright Policy. Structure Probe, Inc. grants a nonexclusive license to make unlimited copies of this safety sheet for internal use only. Quite obviously, this information would pertain only to this material when purchased from SPI Supplies as product from other sources, with other ingredients and impurity

levels could have substantially different properties.