

## SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

## Safety Data Sheet

Date Effective: October 17, 2018

SPI Catalog #'s 02568-AB, 02568-MB

SPI-Chem™ Eosin Y Stain Powder

### Section 1.1: Identification

Chemical Name/Synonyms ..... Eosin Y; Acid Red 87; Bromofluorescein; Eosin yellowish

Product or Trade Name ..... SPI-Chem™ Eosin Y Stain Powder

CAS #'s ..... 17372-87-1

Chemical Formula.....  $C_{20}H_6Br_4Na_2O_5$

### Section 1.2: Relevant Uses/Restrictions

Chemical stain for microscopy.

### Section 1.3: Supplier of the Safety Data Sheet

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### 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)**

Eye irritation (category 2A)

#### 2.2 Label elements

## Pictogram



**Signal Word:** Warning

### Hazard statements:

H319 Causes serious eye irritation

### Precautionary statements:

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/ eye protection/ face protection

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 eye irritation persists: Get medical advice/ attention

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:** None

### Hazardous Material Information System USA

Health ..... 2

Fire Hazard ..... 0

Reactivity ..... 0

Personal Protection .....

### NFPA Rating (estimated)

Health ..... 2

Flammability..... 0

Reactivity ..... 0

## Section 3: Composition

### 3.1 Substances:

Eosin Y            CAS # 17372-87-1            EC # 241-409-6            >90%  
                          C<sub>20</sub>H<sub>6</sub>Br<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>            Molecular Weight: 691.88

## Section 4: First Aid Measures

### 4.1 Description of first aid measures:

#### General Advice:

Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area.

#### Inhalation:

If breathed in, mover person into fresh air.  
If not breathing, give artificial respiration.  
Consult a physician.

**Skin Contact:**

Wash off with soap and plenty of water.  
Consult a physician.

**Eye Contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:**

Never give anything by mouth to an unconscious person.  
Rinse mouth with water.  
Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

No data available.

## **Section 5: Fire Fighting Measures**

**5.1 Extinguishing media:**

Suitable extinguishing media; Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

May be combustible at high temperatures.

**5.3 Hazardous combustion products:**

Carbon oxides, Hydrogen bromide gas, Sodium oxides.

**5.4 Advice for firefighters:**

Protective equipment: 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:**

Use personal protective equipment.  
Avoid contact with skin, eyes, and clothing.  
Avoid dust formation.  
Avoid breathing vapors, mist, or gas.  
Ensure adequate ventilation.  
Avoid breathing dust.  
Remove all sources of ignition.

**6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
Prevent entry into waterways, sewers, basements, or confined areas.

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

Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

Clean contaminated surface thoroughly.

#### 6.4 Reference to other sections:

See Section 13 for disposal information.

### **Section 7: Handling and Storage**

#### 7.1 Precautions for safe handling:

Avoid contact with skin and eyes.

Wear personal protective equipment.

Keep away from incompatible materials.

Keep away from heat and sources of ignition.

Do not ingest.

Do not breathe vapors/dust.

Avoid formation of dust and aerosols.

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

Handle in accordance with good industrial hygiene and safety practice.

For precautions, see Section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.

Store away from incompatible materials, such as oxidizing agents.

Store in a cool, dark place.

#### 7.3 Specific end uses:

Chemical stain for 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:

Eosin Y            CAS # 17372-87-1

OSHA:            None

NIOSH:           None

ACGIH:           None

AHA WHEEL:    None

**Biological limit values:** No data available.

#### 8.2 Exposure controls:

##### 8.2.1 Appropriate engineering controls:

Ensure adequate ventilation.

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.

##### 8.2.2 Individual protection measures:

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron; Gloves. Long sleeved clothing.

Respiratory protection: Effective dust mask. Wear respirator with dust filter.

Hygiene measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

### 8.2.3 Environmental exposure controls:

Do not let product enter the drains.

## **Section 9: Physical and Chemical Properties**

### 9.1 Information on basic physical and chemical properties:

**Appearance:** Yellow to Yellow-Red crystal/powder

**Odor:**

**Odor threshold:** No data available

**pH:** No data available

**Melting point/Freezing point:** No data available

**Boiling point/Boiling point range:** No data available

**Flash Point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor Pressure:** No data available

**Vapor density:** No data available

**Relative density:** No data available

**Solubility:** Soluble in cold water

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

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

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing Properties:** No data available

**9.2 Other information:** No data available

## **Section 10: Stability and Reactivity**

**10.1 Reactivity:** Reactive with oxidizing agents.

**10.2 Chemical Stability:** Stable under recommended storage conditions.

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to avoid:** Heat. Ignition sources. Oxidizing agents.

**10.5 Incompatible materials:** Oxidizing agents.

**10.6 Hazardous decomposition products:** Carbon oxides. Hydrogen bromide. Metallic oxides.

## **Section 11: Toxicological Information**

**Information on the likely routes of exposure:**

**11.1 Information on toxicological effects:**

**A. Acute toxicity:**

LD50	Oral, Mouse	2344 mg/kg
LDLo	Intraperitoneal, Rat	500 mg/kg
LDLo	Intravenous, Rabbit	300 mg/kg

RTECS No. LM5850000

**B. Skin corrosion/irritation:**

May cause skin irritation.

**C. Serious eye damage/irritation:**

Causes serious eye irritation.

**D. Respiratory or skin sensitization:**

No data available.

**E. Germ cell mutagenicity:**

No data available.

**F. Carcinogenicity:**

Carcinogenicity – rat – Subcutaneous:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumors at site of application.

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**G. Reproductive toxicity:**

No data available.

**H. STOT-single exposure:**

No data available.

**I.. STOT-repeated exposure:**

No data available.

**J. Aspiration hazard:**

No data available.

## **Section 12: Ecological Information**

**12.1 Toxicity:** No data available.

**12.2 Persistence and degradability:** No data available.

**12.3 Bio-accumulative potential:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted.

**12.6 Other adverse effects:** No data available.

## **Section 13: Disposal Considerations**

**13.1 Waste treatment methods:**

**Product:** Waste must be disposed of in accordance with Federal, State, and Local Regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Empty containers should be taken for local recycling, recovery or waste disposal.

## **Section 14: Transport Information**

**DOT:** Not dangerous goods.

**IATA:** Not dangerous goods.

**IMDG:** Not dangerous goods.

## **Section 15: Regulatory Information**

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

**U.S. Government Regulations:**

**SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312:**

Acute Health Hazard

**U.S. State Regulations:**

**Massachusetts Right To Know Components:**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:**

Disodium 2(2,4,5,7-tetrabromo-6-oxoxanthen-9-yl))benzoate      CAS # 17372-87-1

**New Jersey Right To Know Components:**

Disodium 2(2,4,5,7-tetrabromo-6-oxoxanthen-9-yl))benzoate      CAS # 17372-87-1

**California Prop. 65 Components:**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**REACH:**

This product is not listed on the ECHA Europa Candidate List of Substances of Very High Concern at: <https://echa.europa.eu/candidate-list-table>

**15.2 Chemical Safety Assessment:** has not been carried out.

Date of Preparation: 17 October 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

LDLo: Lowest published lethal dose

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

TSCA: Toxic Substances Control Act (USA)

DSL: Domestic Substances List (Canada)

PICCS: Philippine Inventory of Chemicals and Chemical Substances

ENCS: Existing and New Chemical Substances (Japan)

AICS: Australian Inventory of Chemical Substances

IECSC: Inventory of Existing Chemical Substances in China

KECL: Korea Existing Chemicals List



## **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 or fluids.

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