

# Safety Data Sheet

## PHLOXINE B CERTIFIED

### Section 1 - Chemical Product and Company Identification

**Catalog Numbers:** R-95

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

#### **1. PRODUCT IDENTIFICATION:**

**Synonyms:** Phloxine B Certified; CI 45410; Nuclear stain; Acid Red 92; Eosin 10B; D&C Red 28; Cyanosine; Eosin Blue; Fluorescein, 2', 4', 5', 7'-tetrabromo-4,5,6,7-tetrachloro-disodium salt.

**CAS No.:** 18472-87-2.

**Molecular Weight:** 829.64.

**Chemical Formula:** C<sub>20</sub>H<sub>2</sub>Br<sub>4</sub>Cl<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>.

#### **2. HAZARDS IDENTIFICATION:**

##### **Emergency Overview:**

**Appearance:** Bright red – brown-red. **! Caution!** Toxicological properties unknown. Maybe harmful if swallowed, inhaled, or absorbed through skin. May cause irritation to skin, eyes, and respiratory tract

##### **GHS Classification**

Acute aquatic toxicity (Category 3)

##### **GHS Label elements, including precautionary statements**

Hazard statement(s)



H402 Harmful to aquatic life.

Maybe harmful if swallowed, inhaled, or absorbed through skin

May cause irritation to skin, eyes, and respiratory tract

Precautionary statement(s): none

##### **HMIS Classification**

- **Health hazard:** 0
- **Flammability:** 0
- **Physical hazards:** 0

##### **NFPA Rating**

- **Health hazard:** 0
- **Fire:** 0
- **Reactivity Hazard:** 0

### **Potential Health Effects**

The toxicological properties of this material have not been investigated.

**Eyes:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** The toxicological properties of this material have not been fully investigated.

**Inhalation:** May cause respiratory tract irritation.

### **3. COMPOSITION / INFORMATION ON INGREDIENTS:**

<b><u>Chemical Name</u></b>	<b><u>CAS No.</u></b>	<b><u>Percent</u></b>	<b><u>Hazardous</u></b>
Phloxine B	18472-87-2	90-100%	No

### **4. FIRST AID MEASURES:**

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.

**Skin:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. Do **NOT** induce vomiting. **Never** give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

### **5. FIRE FIGHTING MEASURES:**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approve or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use water, dry chemical, chemical foam, or alcohol-resistant foam. Use any means suitable for extinguishing surrounding fire.

**Flash Point:** Not available.

**Auto-ignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

### **6. ACCIDENTAL RELEASE MEASURES:**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** 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.

### **7. HANDLING AND STORAGE:**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

#### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

#### **Exposure Limits**

<b><u>Chemical Name</u></b>	<b><u>ACGIH</u></b>	<b><u>NIOSH</u></b>	<b><u>OSHA – Final PEL's</u></b>
Phloxine B	None listed	None listed	None listed

**OSHA Vacated PEL's:** Phloxine B: No OSHA Vacated PELs are listed for this chemical.

#### **Personal Protective Equipment**

**Eyes:** 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.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** Bright red – brown –red powder

**Odor:** No information found.

**Solubility:** Moderately soluble in water (1-10%). Not available.

**Specific Gravity:** No information found.

**pH:** No information found.

**% Volatiles by volume @ 21 deg. C (70 deg. F):** 0

**Boiling Point:** No information found.

**Melting Point:** 0 deg C

**Vapor Density (Air=1):** No information found.

**Vapor Pressure (mm Hg):** No information found.

**Evaporation Rate (BuAc=1):** No information found.

#### **10. STABILITY AND REACTIVITY:**

**Stability:** Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Incompatible materials.

**Incompatibilities with Other Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, carbon dioxide, hydrogen bromide.

**Hazardous Polymerization:** Has not been reported

#### **11. TOXICOLOGICAL INFORMATION:**

**RTECS#:** CAS# 18472-87-2: LM5900000

**LD50/LC50:** CAS# 18472-87-2: Oral, mouse: LD50 = 310 mg/kg; Oral, rat: LD50 = 8400 mg/kg.

**Carcinogenicity:** CAS# 18472-87-2: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Other Studies:** No data available.

#### **12. ECOLOGICAL INFORMATION:**

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

#### **13. DISPOSAL CONSIDERATIONS:**

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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

#### **14. TRANSPORT REGULATIONS:**

Not regulated

#### **15. REGULATORY INFORMATION :**

##### **US FEDERAL**

**TSCA CAS# 18472-87-2** is listed on the TSCA Inventory.

**Health & Safety Reporting List** None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules** None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b** None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule** None of the chemicals in this material have SNUR under TSCA.

##### **SARA**

**CERCLA Hazardous Substances and corresponding RQs** None of the chemicals in this material have an RQ.

**SARA Section 320 Extremely Hazardous Substances** None of the chemicals in this product have TPQ.

**Section 313** No chemicals are reportable under Section 313.

**Clean Air Act** This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act** None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA** None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE CAS# 18472-87-2** is not present on state lists from CA, PA, MA, MN, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

##### **EUROPEAN/INTERNATIONAL REGULATIONS**

###### **European Labeling in Accordance with EC Directives**

**Hazardous Symbols:** Not available.

**Risk Phrases:** Not available

**Safety Phrases:** S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection) CAS# 18472-87-2:** No information available.

**Canada – DSL/NDL CAS# 18472-87-2** is listed on Canada's DSL List.

**Canada – WHMIS WHMIS:** Not available

CAS# 18472-87-2 is not listed on Canada's Ingredient List.

Section 16 - Additional Information
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**MSDS Creation Date:** 1/8/2010

**Revision #1** RC 12/2/14

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