# P*hyto*Technology Laboratories®

# SAFETY DATA SHEET

#### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Rhodamine B

PRODUCT NUMBER: R7228

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: Research Only

Products sold by PhytoTechnology Laboratories are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

H302 – Acute toxicity, Oral (Category 4)

H318 – Serious eye damage (Category 1)

H402 – Acute aquatic toxicity (Category 3)

H412 - Chronic aquatic toxicity (Category 3)

**GHS** Label Element:

•

Pictogram:



Signal Word: Danger

Hazard Statements:

H302 – Harmful if swallowed.

H318 – Causes serious eye damage.

H402 – Harmful to aquatic life.

**Precautionary Statements:** 

P273 – Avoid release to the environment.

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.

P310 – Immediately call a POISON CENTER or doctor/physician.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Basic Violet 10; Brilliant Pink B; Rhodamine O; Tetraethylrhodamine; C.I.# 45170

CAS No: 81-88-9

Formula:  $C_{28}H_{31}ClN_2O_3$ 

Molecular Weight: 479.01 EC No.: 201-383-9

Ingredient	CAS Number	Percent	Hazardous	
Rhodamine B	81-88-9	No exposure limits established by OSHA or ACGIH		

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#### 4. FIRST AID MEASURES

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

area.

First Aid Procedures **Route of Entry Symptoms** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Safely remove victim to fresh air. If not breathing, institute Inhalation May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to blurred vision. ensure thorough rinsing. Get medical attention if irritation persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use Suitable Extinguishing Media:

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

**Hazardous Combustion Products:** May emit toxic fumes under fire conditions.

Produce toxic gasses such as carbon dioxide and carbon monoxide.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Avoid breathing vapors,

> mist or gas. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let product enter

drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Conditions for Safe Storage:

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Product No: R7228 Page 2 of 5 Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Wear appropriate respirator.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red to Violet or Green

pH: No data available

Solubility: Water

Melting Point: No data available
Freezing Point: No data available
Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: 0.79 g/cm3

Odor: No data available
Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available

Evaporation Rate: No data available
Initial Boiling Point and

Boiling Range:

No data available

Flammability (solid, gas): No data available

Partition coefficient: n-octanol/water):

No data available

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

# 11. TOXICOLOGICAL INFORMATION

Toxicity:  $LD_{50}$  (Oral-Rat)(mg/Kg): 500

LD<sub>50</sub> (Oral-Mouse)(mg/Kg): 887

LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No

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IARC: Group 3

Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with bu

Overexposure:

burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting

o verenposure.

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Liver, Spleen., Lungs, Kidney, Gastro-intestinal system

Medical Conditions

Aggravated By Exposure:

Routes of Entry:

Inhalation, Ingestion

None identified

NIOSH/RTECS No: BP3675000

# The toxicological properties of this product have not been thoroughly investigated

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 83.9 mg/l - 96 h

LC50 - Lepomis macrochirus (Bluegill) - 379 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 217 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 22.9 mg/l - 48 h

Persistence and Degradability: Not readily biodegradable

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: Harmful to aquatic life with long lasting effects

### 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

# 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

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#### 15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard □

Massachusetts Right to Know Components: CAS No.: 81-88-9

9-(2-Carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride

Pennsylvania Right to Know Components: CAS No.: 81-88-9

9-(2-Carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride

New Jersey Right to Know Components: CAS No.: 81-88-9

9-(2-Carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride

California Prop. 65 Components: CAS No.: 81-88-9

9-(2-Carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride WARNING! This product contains a chemical known to the State of

California to cause cancer.

#### 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
2	0	0	

Phyto Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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