RHODAMINE B
MATERIAL SAFETY DATA SHEET

INTEGRA Chemical Company
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

Product Identification

Product Name: RHODAMINE B
Synonyms: CI 45170
Chemical Formula: C28H31N2O3Cl
Formula Weight: 479.02
Chemical Family:
Integra Product Numbers: R368.50

Hazard Overview

HMIS Rating: 3-1-1-F    NFPA Rating: NE
Warning Label: Warning.
May be harmful if swallowed or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly after handling. Possible carcinogen.

Components

Component          CAS #         %
Rhodamine B        00081-88-9   100

Physical Data

Boiling Point: NA      Specific Gravity: NA
Melting Point: NA      Evaporation Rate: NA
Vapor Pressure: NA     Vapor Density: NA Air = 1
Solubility: Soluble in water
Appearance and Odor: Reddish-violet powder or green crystals

Fire and Explosion Data

Flash Point: NA      Test Method: 
Auto-ignition Temperature: NA
Flammable Limits (% by volume in air): Upper: NA    Lower: NA

Fire Extinguishing Media: Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Firefighting Procedures: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards: None identified

Health Hazard Information

Effects of Overexposure

Skin Contact: Contact may cause skin irritation.
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Health Hazard Information

Eye Contact:
Contact may be irritating to the eyes.

Ingestion:
May be harmful if swallowed. Limited information is available, however material should be considered a potential health hazard.

Inhalation:
May be harmful if inhaled. May cause irritation to the respiratory tract. Symptoms include coughing, sore throat and shortness of breath.

Chronic Effects of Overexposure:
Phototoxic or photoallergic reactions.

Exposure Limits:

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
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ACGIH TLV

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Toxicity Data:

Rhodamine B
LD50 (oral, mouse) 887 mg/kg
LD50 (intravenous, rat) 89 mg/kg
LD50 (intraperitoneal, rat) 112 mg/kg

Medical Conditions Generally Aggravated by Exposure:
None Identified

Target Organs:
None Identified

Reproductive Effects:
None Identified

Carcinogenicity:
Animal studies indicate this material may be carcinogenic.

<table>
<thead>
<tr>
<th>Component</th>
<th>NTP Listing</th>
<th>IARC Listing</th>
<th>OSHA Regulated</th>
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<td>Rhodamine B</td>
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<td>Group 3, Unclassifiable</td>
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Emergency First Aid Procedures

Skin Contact:
Wash with soap and water. Seek medical attention if irritation develops.

Eye Contact:
Flush eyes with water. If irritation persists, seek medical attention.

Inhalation:
Remove to fresh air. If breathing difficulty persists seek immediate medical attention.

Ingestion:
If conscious, give victim large amounts of water. Seek medical attention.

Additional First aid and Treatment Notes:
Emergency First Aid Procedures

No information available

Reactivity Data

Stability: Stable
Hazardous Polymerization: Will Not Occur

Incompatibilities:
  Incompatible with strong oxidizers.

Decomposition Products:
  NOx and COx fumes. Ammonia, hydrogen chloride

Conditions to Avoid:
  Incompatibles

Spill and Disposal Procedures

Spill and Leak Procedures:
  Prevent spread of spill. Sweep or scoop into suitable disposal container. Minimize dust dispersion.

Disposal Procedures:
  Dispose in accordance with all Local, State and Federal regulations.

Protective Equipment

Ventilation:
  Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection:
  A NIOSH approved dust/mist respirator should be worn at all times.

Skin and Eye Protective Equipment:
  Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby.

Storage and Handling Precautions

Storage Area: HEALTH HAZARD
  Store in a cool, dry well-ventilated area or cabinet dedicated to toxic storage. Isolate away from incompatible materials. Keep containers well closed.

Transportation Information

☐ Regulated Material domestic ground transportation
  (reference: CFR Title 49, Transportation)
  Proper Shipping Name: 
  UN or NA Identification number:  Hazard Class and Label: 
  Packing Group:  Subsidiary Risk and Label: 

☐ Regulated Material via Air Transportation
  (reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)
  Proper Shipping Name: 
  UN Identification Number:  Hazard Class and Label: 
  Packing Group:  Subsidiary Risk and Label: 

### Transportation Information

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<thead>
<tr>
<th>Packing Instruction</th>
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<td>Cargo Aircraft:</td>
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### Regulatory Information

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<tr>
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<th>CERCLA</th>
<th>SARA EHS</th>
<th>SARA 313 Toxic Release</th>
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<tr>
<td></td>
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<td>Flammability</td>
<td>Pressure</td>
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**MSDS Revision History:**

- 002 - Format revisions; updated header phone number
- 003 - Updated Header Information

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***** END OF MSDS *****