Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Identity: Red Fluorescent Dye

Chemical Family: Not Applicable
Synonyms: Rhodamine B 1% Staining Solution
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 09/02/12
Revision Date:

Section 2 – Hazard Identification

Emergency Overview
May cause eye, skin, respiratory tract and digestive tract irritation. This product is expected to be a low hazard for industrial handling.

Appearance: Reddish-violet liquid
Odor: Odorless
Target Organs: None.

Potential Health Effects/ Routes of Exposure:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause irritation to the respiratory tract.

Chronic Effect / Carcinogenicity: None.

Aggravated Medical Conditions: No information available.
These chemicals are not considered hazardous by OSHA. See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Rhodamine B, CAS# 81-88-9, 0.1% w/v
Water, purified, CAS# 7732-18-5, 99.9% w/v

Section 4 – First Aid

Eyes: Flush eyes with water for at least 15 minutes. Get medical assistance if irritation develops.
Skin: Flush skin with water for 15 minutes. Get medical assistance if irritation develops or persists.
Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance if irritation develops.
Inhalation: Remove to fresh air immediately. DO NOT use mouth-to-mouth resuscitation. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms appear.
Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable
Autoignition Temperature: No information available.
Explosion Limits Upper: No data available
Lower: No data available
Extinguishing Media: Use means suitable to extinguishing surrounding fire.
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Nonflammable.
Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.
Hazardous Combustion Products: No information Available
Sensitivity to mechanical impact: No information available.
Sensitivity to static discharge: No information available.
Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors
NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions: Use proper personal protective equipment. Avoid contact with skin, eyes and clothing.
Environmental Precautions: Do not let this material enter the environment.
Methods for Containment and Clean Up: Clean up spills immediately observing precautions in Section 8. Absorb with an absorbent material and containerize for disposal. Provide ventilation. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin, eyes and clothing. Avoid ingestion or inhalation.
Storage: Keep containers tightly closed in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 – Exposure Controls, Personal Protection

Rhodamine B, CAS# 81-88-9, ACGIH TLV: NA, OSHA PEL: NA
Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Ensure eyewash and safety showers are available.
Personal Protection Equipment: Skin Protection: Chemical resistant gloves.
Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Reddish-violet liquid
Odor: Odorless
Boiling Point: Not available
Melting Point: Not available
Vapor Density: Not available
Evaporation Rate: Not available
pH: Not available
Flammability: No information available
Solubility: Soluble
Relative Density: No information available
% Volatility: No information available
Specific Gravity: Not available
Vapor Pressure: Not available
Flash Point: No information available
Coefficient of water/oil distribution: Not available
Odor Threshold: Not available
Decomposition Temperature: Not available
Partition Coefficient n-octanol/water: Not available
Molecular Weight: Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Incompatible materials, excess heat, dust generation.
Incompatible Materials: Strong oxidizers and reducing agents.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride.
Hazardous Polymerization: Does not occur.
Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information
**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2
LD50 orl-rat: 400-800mg/kg (Rhodamine)  
LC50 inhalation-rat: NA

**Irritation:** No information available.

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

**Carcinogenicity:** Rhodamine – California: carcinogen, IARC: Group 3 (not classifiable).

**Sensitization:** No information available.

**Mutagenic Effects:** No information available.

**Reproductive Effects:** No Information available.

**Developmental Effects (Immediate/Delayed):** No information available.

**Teratogenicity:** No information available.

**Other Adverse Effects:** No information available.

**Endocrine Disruptor Information:** No information available

**Section 12 – Ecological Information**

**Ecotoxicity:** Do not empty into drains. Do not let this chemical enter the environment.

**Persistence and Degradaibility:** No Information Available  
**Mobility:** No information available  
**Bioaccumulation/ Accumulation:** No Information Available

**Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** 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**

**Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** These chemicals are on Canada’s DSL list.

**TSCA:** These chemicals are listed on the TSCA Inventory.

**SARA Title III Section 313:** Not applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Not Applicable

**WHMIS:** Not available

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.
Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Identity: Blue Fluorescent Dye

Chemical Family: Not Applicable
Synonyms: Not Applicable
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 09/02/12
Revision Date:

Section 2 – Hazard Identification

Emergency Overview
Flammable liquid. Toxic by ingestion; give large quantities of water and induce vomiting. Get medical
attention. May cause dryness and cracking of the skin. May cause irritation to the respiratory tract, eyes
and skin. Wash areas of contact. Get medical attention if irritation develops.
Appearance: Blue liquid     Odor: Alcohol
Target Organs: Respiratory system, Eyes, Skin, Central nervous system, Liver, and Pancreas
Potential Health Effects/ Routes of Exposure:
Eyes: May cause irritation, burning, pain, and possible damage to the cornea and conjunctiva.
Skin: May cause irritation, drying and cracking leading to secondary infection and dermatitis.
Ingestion: May cause hallucinations, sleep disorders, distorted perception, ataxia, motor function
changes, convulsions, tremors, coma, and headaches.
Inhalation: May cause irritation to the upper respiratory tract, eyes, and nose, central nervous system
depression, sleepiness, lack of concentration.
Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)
Aggravated Medical Conditions No information available
These chemicals are considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

3-Hydroxy-2-naphthoic acid, CAS# 92-70-6, 0.5%
Ethanol, CAS# 64-17-5, 98% w/v
Sodium Hydroxide, CAS# 1310-73-2, 1.5% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.
Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.
Ingestion: Induce vomiting. Dilute with water or milk. Get medical assistance.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give
oxygen.
Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable   Autoignition Temperature: No information available.
Explosion Limits Upper: No data available  
Lower: No data available  

Extinguishing Media: Water, dry chemical, foam, or Carbon Dioxide. Water spray can keep containers cool.  

Unsuitable Extinguishing Media: No information available  

Fire & Explosion Hazards: Moderate explosion hazard. Dangerous fire hazard when exposed to heat, sparks, and open flames.  

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment. Poisonous gas are produced in fire. Use water to keep surrounding containers cool.  

Hazardous Combustion Products: No information available  

Sensitivity to mechanical impact: No information available.  

Sensitivity to static discharge: No information available.  

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors.  

NFPA Rating: (estimated) Health: 1; Flammable: 3; Reactivity: 0  

Section 6 – Accidental Release Measures  

Personal Precautions: Use proper personal protective equipment. Avoid contact with skin, eyes and clothing.  

Environmental Precautions: Not Applicable  

Methods for Containment and Clean Up: Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment. Always obey local regulations.  

Section 7 – Handling and Storage  

Handling: Wash hands after handling. Avoid contact with skin and eyes. Empty containers can still be hazardous since they retain product residue.  

Storage: Keep container tightly closed in a cool, dry area. Protect from freezing and physical damage. Store in secure, flammable storage area away from sources of ignition.  

Section 8 – Exposure Controls, Personal Protection  

3-Hydroxy-2-naphthoic acid, CAS# 92-70-6, ACGIH TLV: NA, OSHA PEL: NA  
Ethanol, CAS# 64-17-5, ACGIH TLV: 1880mg/m3, OSHA PEL: 1900mg/m3  
Sodium Hydroxide, CAS# 1310-73-2, ACGIH TLV: 2 mg/m3, OSHA PEL: 2mg/m3  

Engineering Measures/ General Hygiene: Local/general exhaust is recommended. Ensure eyewash and safety showers are available.  

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.  
Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation is adequate. If exposure limit is exceeded, a full-face respirator with organic cartridge may be worn.  

Section 9 – Physical and Chemical Properties  

Appearance/Physical State: Blue Liquid  
Odor: Alcohol  
Boiling Point: Not Applicable  
Melting Point: Not Applicable  
Vapor Density: Not Applicable  
Evaporation Rate: Not available  
% Volatility: No Information Available  
Specific Gravity: Approx 1  
Vapor Pressure: Not Applicable  
Flash Point: Not Applicable  
Coefficient of water/oil distribution: Not Available  
pH: Not Applicable  
Flammability: No Information Available  
Solubility: Infinite  
available  
Relative Density: No Information Available  
Molecular Weight: Not available  

Section 10 – Stability and Reactivity  

Chemical Stability: Stable under normal conditions of use and storage.  

**Incompatible Materials:** Strong oxidizers, heat, sparks, open flames, platinum, sodium, bromine pentfluoride, potassium dioxide, acetyl bromide, acetyl chloride

**Hazardous Decomposition Products:** Oxides of carbon, acrid and irritating fumes

**Hazardous Polymerization:** Does not occur

**Hazardous Reactions:** Not Available

**Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

- LD50 orl-rat: 7060mg/kg (Ethanol)
- LC50 inhalation-rat: NA

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

**Carcinogenicity:** There are no known carcinogenic chemicals in this product

**Sensitization:** No information available.

**Mutagenic Effects:** No information available.

**Reproductive Effects:** No Information available.

**Developmental Effects (Immediate/Delayed):** No information available.

**Teratogenicity:** No information available.

**Other Adverse Effects:** No information available.

**Endocrine Disruptor Information:** No information available

**Section 12 – Ecological Information**

**Ecotoxicity:** Ethanol has a slight acute and chronic toxicity to aquatic life

**Persistence and Degradability:** No Information Available

**Mobility:** No Information Available

**Bioaccumulation/Accumulation:** No Information Available

**Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Absorb with inert material and place in container for disposal. Ventilate area of spill. Have fire extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking equipment.

All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

**Section 14 – Transport Information**

**DOT – UN1170, Ethanol, 3, II**

**Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are considered hazardous by OSHA.

**Canada DSL:** These chemicals are on Canada’s DSL list.

**TSCA:** The components of this solution are listed on the TSCA Inventory

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Not Applicable


This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.
Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Identity: Green Fluorescent Dye

Chemical Family: Not Applicable
Synonyms:
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 09/02/12
Revision Date:

Section 2 – Hazard Identification

Emergency Overview
May cause eye, skin, respiratory tract and digestive tract irritation. This product is expected to be a low hazard for industrial handling.

Appearance: Green liquid Odor: Odorless
Target Organs: None.

Potential Health Effects/ Routes of Exposure:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause irritation to the respiratory tract.

Chronic Effect / Carcinogenicity: None.
Aggravated Medical Conditions: No information available.
These chemicals are not considered hazardous by OSHA. See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Fluorescein, disodium salt, anhydrous CAS# 518-47-8, 0.01% w/v
Sodium Hydroxide, CAS# 1310-73-2, .1% w/v
Water, purified, CAS# 7732-18-5, >99.8% w/v

Section 4 – First Aid

Eyes: Flush eyes with water for at least 15 minutes. Get medical assistance if irritation develops.
Skin: Flush skin with water for 15 minutes. Get medical assistance if irritation develops or persists.
Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance if irritation develops.
Inhalation: Remove to fresh air immediately. DO NOT use mouth-to-mouth resuscitation. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms appear.
Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable Autoignition Temperature: No information available.
Explosion Limits Upper: No data available Lower: No data available
Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: No information Available

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact: No information available.

Sensitivity to static discharge: No information available.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors

NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions: Use proper personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Do not let this material enter the environment.

Methods for Containment and Clean Up: Clean up spills immediately observing precautions in Section 8. Absorb with an absorbent material and containerize for disposal. Provide ventilation. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin, eyes and clothing. Avoid ingestion or inhalation.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 – Exposure Controls, Personal Protection

Fluorescein, disodium salt, anhydrous CAS# 518-47-8, ACGIH TLV: NA, OSHA PEL: NA

Sodium Hydroxide, CAS# 1310-73-2, ACGIH TLV: 2 mg/m3, OSHA PEL: 2mg/m3

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Green liquid

Odor: Odorless

Boiling Point: Not available

Melting Point: Not available

Vapor Density: Not available

Evaporation Rate: Not available

pH: Not available

Flammability: No information available

Solubility: Soluble

Relative Density: No information available

% Volatility: No information available

Specific Gravity: Not available

Vapor Pressure: Not available

Flash Point: No information available

Coefficient of water/oil distribution: Not available

Decomposition Temperature: Not available

Partition Coefficient n-octanol/water: Not available

Molecular Weight: Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials, excess heat, dust generation.

Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Oxides of carbon, oxides of sodium

Hazardous Polymerization: Does not occur.

Hazardous Reactions: None under normal processing.
Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: NA   LC50 inhalation-rat: NA
Irritation: No information available.
Toxicologically Synergistic: No Information Available
Chronic Exposure
Carcinogenicity: No information available.
Sensitization: No information available.
Mutagenic Effects: No information available.
Reproductive Effects: No Information available.
Developmental Effects (Immediate/Delayed): No information available.
Teratogenicity: No information available.
Other Adverse Effects: No information available.
Endocrine Disruptor Information: No information available

Section 12 – Ecological Information

Ecotoxicity: Do not empty into drains. Do not let this chemical enter the environment.
Persistence and Degradability: No Information Available  Mobility: No information available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: 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

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.
Canada DSL: These chemicals are on Canada’s DSL list.
TSCA: These chemicals are listed on the TSCA Inventory.
SARA Title III Section 313: Not applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not Applicable
WHMIS: Not available
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.
Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification


Product Identity: Orange Fluorescent Dye

Chemical Family: Not Applicable

Synonyms:

Recommended Use: Laboratory chemicals

Manufacturer’s Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331

Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 09/02/12

Revision Date:

Section 2 – Hazard Identification

Emergency Overview

May cause eye, skin, respiratory tract and digestive tract irritation. This product is expected to be a low hazard for industrial handling.

Appearance: Orange liquid

Odor: Odorless

Target Organs: None.

Potential Health Effects/Routes of Exposure:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause irritation to the respiratory tract.

Chronic Effect/Carcinogenicity: None.

Aggravated Medical Conditions: No information available.

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Fluorescein, disodium salt, anhydrous CAS# 518-47-8, 0.1% w/v

Rhodamine B, CAS# 81-88-9, 0.3% w/v

Water, purified, CAS# 7732-18-5, 99.6% w/v

Section 4 – First Aid

Eyes: Flush eyes with water for at least 15 minutes. Get medical assistance if irritation develops.

Skin: Flush skin with water for 15 minutes. Get medical assistance if irritation develops or persists.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance if irritation develops.

Inhalation: Remove to fresh air immediately. DO NOT use mouth-to-mouth resuscitation. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms appear.

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable

Autoignition Temperature: No information available.

Explosion Limits Upper: No data available

Lower: No data available
Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: No information Available

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact: No information available.

Sensitivity to static discharge: No information available.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors

NFPA Rating: (estimated) Health: 1; Flammable: 1; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions: Use proper personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Do not let this material enter the environment.

Methods for Containment and Clean Up: Clean up spills immediately observing precautions in Section 8. Absorb with an absorbent material and containerize for disposal. Provide ventilation. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin, eyes and clothing. Avoid ingestion or inhalation.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 – Exposure Controls, Personal Protection

Fluorescein, disodium salt, anhydrous CAS# 518-47-8, ACGIH TLV: NA, OSHA PEL: NA
Rhodamine B, CAS# 81-88-9, ACGIH TLV: NA, OSHA PEL: NA
Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Orange liquid

Odor: Odorless

Boiling Point: Not available

Melting Point: Not available

Vapor Density: Not available

Evaporation Rate: Not available

pH: Not available

Flammability: No information available

Solubility: Soluble

Relative Density: No information available

% Volatility: No information available

Specific Gravity: Not available

Vapor Pressure: Not available

Flash Point: No information available

Coefficient of water/oil distribution: Not available

Odor Threshold: Not available

Decomposition Temperature: Not available

Partition Coefficient n-octanol/water: Not available

Molecular Weight: Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials, excess heat, dust generation.

Incompatible Materials: Strong oxidizers and reducing agents.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride.

Hazardous Polymerization: Does not occur.

Hazardous Reactions: None under normal processing.
Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: 400-800mg/kg (Rhodamine)    LC50 inhalation-rat: NA
Irritation: No information available.
Toxicologically Synergistic: No Information Available

Chronic Exposure
Carcinogenicity: Rhodamine – California: carcinogen, IARC: Group 3 (not classifiable).
Sensitization: No information available.
Mutagenic Effects: No information available.
Reproductive Effects: No Information available.
Developmental Effects (Immediate/Delayed): No information available.
Teratogenicity: No information available.
Other Adverse Effects: No information available.
Endocrine Disruptor Information: No information available

Section 12 – Ecological Information

Ecotoxicity: Do not empty into drains. Do not let this chemical enter the environment.
Persistency and Degradability: No Information Available    Mobility: No information available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: 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

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.
Canada DSL: These chemicals are on Canada’s DSL list.
TSCA: These chemicals are listed on the TSCA Inventory.
SARA Title III Section 313: Not applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not Applicable
WHMIS: Not available
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.