



Rhodamine 6G Powder MSDS

Effective Date: August 6, 2013

24 Hour Emergency Contact:

ChemTel: (800)255-3924

www.pioneerforensics.com

1. PRODUCT AND COMPANY IDENTIFICATION

Product: Rhodamine 6G Powder
Product Number(s): PF044
CAS#: 989-38-8
Synonyms: No information found
Manufacturer: Pioneer Forensics, LLC
804 E. Eisenhower Blvd.
Loveland, CO 80537
Ph: (970) 292-8487
Emergency Number: (800) 255-3924 (CHEM-TEL)
Customer Service: (970) 292-8487

2. HAZARDS IDENTIFICATION

Emergency Overview: HARMFUL IF INGESTED. MAY BE HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN.

Safety Ratings: Health: 2, Moderate Reactivity: 0, None
Flammability: 1, Slight Contact: 2, Moderate

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects:

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact

Inhalation: May cause irritation of respiratory tract.

Ingestion: Toxic if swallowed.

Skin Contact: May cause skin irritation.

Eye Contact: Causes eye irritation.

Target Organs: Liver, gastrointestinal tract, eyes

Chronic Health Effects: May cause death if ingested. Prolonged or repeated exposure may cause adverse health effects.

Potential Environmental Effects:

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>Chemical Formula</u>	<u>Formula Weight</u>	<u>Hazardous</u>	<u>% by Weight</u>
Rhodamine 6G	989-38-8	C ₂₈ H ₃₁ N ₂ O ₃ Cl	479.02	Yes	100

4. FIRST AID MEASURES

First Aid Procedures:

- Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, provide artificial respiration. Get medical attention.
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.
- Skin Contact:** Wash affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
- Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Notes to Physician: Treat symptomatically. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

Flammable Properties: May be combustible at high temperatures.

Flash Point: No information found

Auto-ignition Temp: No information found

Flammable Limits in Air (% by volume): Lower Explosion Limit: No information found
Upper Explosion Limit: No information found

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, hydrogen chloride (HCl)

Specific Hazards:	Thermal decomposition may yield HCl vapor, which is highly toxic. High powder concentrations in air may cause an explosion hazard.
Special Protective Equipment For Firefighters:	As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained positive pressure or pressure-demand breathing apparatus and full protective gear.
Specific Methods:	Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
Methods for Containment:	Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible.
Methods for Cleaning Up:	Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place in a non-combustible container for reclamation or disposal. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling:	Do not handle or open near flame, sources of heat, or sources of ignition. Ground equipment in contact with material. Wear personal protective equipment (see section 8). Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Do not ingest. When using, do not smoke. Keep away from incompatible materials. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain product residues. Observe all warnings and precautions listed for the product
Storage:	Store in a cool, dry, ventilated area away from flame, sources of ignition, heat, and incompatible materials. Store in a segregated and approved area if possible. Store in original container. Keep containers tightly closed and upright. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits:	No information found
Engineering Controls:	Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Explosion proof exhaust ventilation should be used.
Personal Protective Equipment:	
Eye/Face Protection:	Wear goggles or safety glasses with side shields and a face shield.

Skin Protection:	Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.
Respiratory Protection:	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
General Hygiene Considerations:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Crystalline powder
Color:	Brownish red
Odor:	Odorless
Molecular Formula:	$C_{28}H_{31}N_2O_3Cl$
Molecular Weight:	479.02
pH:	No information found
Specific Gravity:	1.26
Freezing/Melting Point:	No information found
Boiling Point:	No information found
Flash Point:	No information found
Auto Ignition Temperature:	No information found
Flammable Limits in Air (% by Volume):	
Upper:	No information found
Lower:	No information found
Solubility:	Soluble in water
Vapor Pressure:	No information found
Vapor Density:	No information found
Percent Volatile:	No information found
Odor threshold (ppm):	No information found
Evaporation Rate:	No information found
Partition Coefficient (n-octanol/water):	No information found

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames, ignition sources, incompatibles
Incompatible Materials:	Oxidizing agents
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides, hydrochloric acid
Possibility of Hazardous Reactions:	Thermal decomposition or exposure to incompatible materials may yield hazardous decomposition products.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Data:	Oral Rat LD50: 400 mg/kg
Acute Effects:	Harmful if ingested. Hazardous if inhaled or absorbed through the skin.
Local Effects:	Causes eye, skin, and respiratory tract, and gastrointestinal tract irritation. May cause conjunctivitis and corneal injury if exposed to the eyes. May cause nausea, vomiting, diarrhea, and hemolysis if swallowed.
Sensitization:	No information found
Chronic Effects:	Prolonged or repeated ingestion may cause loss of appetite, weight loss, or liver damage.
Carcinogenic Effects:	This product is not classified as a human carcinogen by IARC, ACGIH, NTP, or OSHA.
Skin Corrosion/Irritation:	No information found
Epidemiology:	No epidemiological data is available for this product.
Mutagenicity:	Mutagenic for mammalian somatic cells and bacteria/yeast.
Neurological Effects:	No information found
Reproductive Effects:	No information found
Teratogenic Effects:	No information found
Target Organs and Symptoms:	Skin, lungs, mucous membranes, gastrointestinal tract, liver, eyes. Irritation, nausea, vomiting, diarrhea, loss of appetite, weight loss.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:	No information found
Ecotoxicity:	No information found
Environmental Effects:	No information found
Persistence and Degradability:	Long term biodegradation may occur. Products of biodegradation are less toxic than the product itself.
Partition Coefficient (n-octanol/water):	No information found

13. DISPOSAL INFORMATION

Disposal Instructions:	All wastes must be handled in accordance with local, state and federal regulations.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.
Waste Codes:	No information found

14. TRANSPORT INFORMATION

DOT: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: Rhodamine 6G

U.S. EPCRA (SARA Title III):

Sections 311/312:	<u>Hazard Categories</u>	<u>List (Yes/No)</u>
	Section 311 – Hazardous Chemical	Yes
	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

Section 313: Toxic Chemical or Category: Rhodamine 6G

De Minimis Concentration: 1.0%

CERCLA: No information found

International Inventories:	<u>Country(s) or Region</u>	<u>Inventory Name</u>	<u>On Inventory (Yes/No)*</u>
	Australia	Australian Inventory of Chemical Substances (AICS)	Yes
	Canada	Domestic Substances List (DSL)	Yes
	Canada	Non-Domestic Substances List (NDSL)	No
	China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
	Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
	Europe	European List of Notified Chemical Substances (ELINCS)	No
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	Korea	Existing Chemicals List (ECL)	Yes
	New Zealand	New Zealand Inventory	No
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Product Use: Laboratory and/or field reagent

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Reason for Revision: Not applicable