

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Rhodamine 6G *CAS 989-38-8*
Product number: 70

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.
Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588
Telephone: (408)-733-1055
Fax: (408)-733-1304
Email: info@aatbio.com

1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300
Chemtrec (Outside USA): 1-(703)-527-3887

Section 2: Hazard identifications

2.1 Classification of the substance or mixture

Acute toxicity, oral: Category 3
Sensitization, Skin: Category 1B
Serious eye damage/eye irritation: Category 1

2.2 Label elements

Signal word: Danger
Hazard statements: H301 - Toxic if swallowed
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

Symbols/Pictograms:



Precautionary statements - prevention:	Wash hands... thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands... thoroughly after handling. Do not touch eyes.
Precautionary statements - response:	IF SWALLOWED: Get emergency medical help immediately. Specific treatment (see on this label). Rinse mouth. IF ON SKIN: wash with plenty of water. IF SKIN irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get emergency medical help.
Precautionary statements - storage:	Store locked up.
Precautionary statements - disposal:	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC):	Very toxic to aquatic life with long lasting effects
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2.4 Other information

Other hazards:	Hazards classified under paragraph (d)(1)(ii) of 1910.1200: No information available
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Section 3: Composition/information on ingredients

3.1 Substances

Chemical name:	Rhodamine 6G *CAS 989-38-8*
CAS number:	989-38-8
Molecular weight:	479.01
Formula:	Not available

Section 4: First aid measures

4.1 First-aid measures

General advice:	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin contact:	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately.
Self-protection of the first aider:	Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Most important symptoms and effects: Causes severe eye damage. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
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4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians:	Treat symptomatically
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Section 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media:	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media:	No information available

5.2 Specific hazards arising from the chemical

Specific hazards arising from the chemical:	Do not allow run-off from fire-fighting to enter drains or water courses.
Hazardous combustion products:	Nitrogen oxides (NO _x). Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride gas.

5.3 Explosion data

Sensitivity to mechanical impact:	No information available
Sensitivity to static discharge:	No information available

5.4 Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.
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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
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6.2 Environmental precautions

Environmental precautions:	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
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6.3 Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so.
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Methods for cleaning up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.

Incompatible materials:

Strong oxidizing agents

Section 8: Exposure controls/personal protection

8.1 Control parameters

Exposure guidelines:

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate engineering controls

Engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection:

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 and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Physical state:

Solid

Solubility in water:

Low

Appearance:

No information available.

Odor/odor threshold:

No information available

pH:

No information available

Melting point/freezing point:

229.4 °C / 444.9 °F

Boiling point:

No information available

Flashpoint:

No information available

Liquid density:	No information available.
Evaporation rate:	Not applicable - Solid
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure:	No information available
Vapor density:	Not applicable Solid
Specific gravity:	No data available
Water solubility:	Soluble
Solubility in other solvents:	No information available
Partition coefficient:	C.I. Basic red 1 log Pow 0.1
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	Not applicable Solid
Explosive properties:	No information available.
Oxidizing properties:	No information available.

Section 10: Stability and reactivity

Reactivity:	None known, based on information available
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Incompatible products.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas

Section 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	May produce an allergic reaction. Avoid breathing dust or spray mist. May be harmful if inhaled.
Eye contact:	Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness. Sensitization.
Skin contact:	Avoid contact with skin. Skin Corrosion/Irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion:	May cause allergic reaction. May be harmful if swallowed.

11.2 Information on toxicological effects

Symptoms:	Symptoms / effects, both acute and delayed: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity:

Other Adverse Effects: The toxicological properties have not been fully investigated. Endocrine Disrupting Properties: This product does not contain any known or suspected endocrine disruptors.

11.4 Numerical measures of toxicity - product information

Unknown acute toxicity:

Toxicology data for the components: C.I. Basic red 1 LD50 Oral 250 mg/kg bw (Rat); LD50 Dermal -; LC50 Inhalation -. (b) skin corrosion/irritation: Based on available data, the classification criteria are not met. Test method OECD 404; Test species rabbit; Observational endpoint No skin irritation. (c) serious eye damage/irritation: Category 1. Test method OECD 405; Test species rabbit; Observation end point irreversible. (d) respiratory or skin sensitization: Respiratory No data available; Skin Sub-category 1B. C.I. Basic red 1 989-38-8 (>95); Test method OECD Test Guideline 429 Local Lymph Node Assay; Test species mouse; Study result Sensitization. (e) germ cell mutagenicity: Based on available data, the classification criteria are not met. C.I. Basic red 1 989-38-8 (>95); Test method OECD Test Guideline 471 Bacterial Reverse Mutation Test; Test species in vitro Bacteria; Study result negative. (f) carcinogenicity: C.I. Basic red 1 (CAS 989-38-8): IARC Not listed; NTP Not listed; ACGIH Not listed; OSHA Not listed; Mexico Not listed. Target Organs: None known. (j) aspiration hazard: Not applicable Solid.

Section 12: Ecological information

Ecotoxicity:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. C.I. Basic red 1: Freshwater Algae EC50 = 0.023 mg/l, 72h Pseudokirchneriella subcapitata; Freshwater Fish Not listed; Microtox Not listed; Water Flea EC50 = 0.16 mg/l, 48h Daphnia magna.

Persistence and degradability:

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation:

No information available.

Mobility:

Will likely be mobile in the environment due to its water solubility. C.I. Basic red 1 log Pow 0.1

Section 13: Disposal consideration

Disposal of wastes:

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.

Contaminated packaging:

Do not reuse container.

Other information:

None

Section 14: Transport information

DOT:

UN-No UN2811; Proper Shipping Name TOXIC SOLIDS, ORGANIC, N.O.S.; Hazard Class 6.1; Packing Group III

IMDG:

IMDG/IMO UN-No UN2811; Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.; Hazard Class 6.1; Packing Group III

Section 15: Regulatory information

15.1 International Inventories

US Toxic Substances Control Act (TSCA):	C.I. Basic red 1 (CAS 989-38-8): TSCA X; TSCA Inventory notification - Active-Inactive ACTIVE; TSCA - EPA Regulatory Flags '-'. TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT): Not applicable. TSCA 12(b) - Notices of Export: Not applicable
Canada (DSL/NDSL):	DSL X; NDSL '-'
Europe (EINECS/ELINCS/NLP):	EINECS 213-584-9
Australia (AICS):	X
South Korea (KECL):	KE-06983;KE-13521
China (IECSC):	X
Japan (ENCS):	X
Phillipines (PICCS):	X

15.2 US Federal Regulations

SARA 313:	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. C.I. Basic red 1 (CAS 989-38-8): Weight % >95; SARA 313 - Threshold Values % 1.0 %; SARA 313 - Reporting thresholds -
SARA 311/312 components:	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.
CWA (Clean Water Act):	Not applicable

15.3 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
Massachusetts-RTK:	C.I. Basic red 1 Massachusetts X
New Jersey-RTK:	C.I. Basic red 1 New Jersey X
Pennsylvania-RTK:	C.I. Basic red 1 Pennsylvania X
U.S. State Right-To-Know Regulations:	C.I. Basic red 1: Massachusetts X; New Jersey X; Pennsylvania X; Illinois -; Rhode Island -

Section 16: Other information

16.1 HMIS

Health hazards:	Not determined
Flammability:	Not determined
Reactivity:	Not determined
Personal protection:	Not determined

16.2 NFPA

Health hazards:	Not determined
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Flammability:	Not determined
Stability:	Not determined
Physical and chemical properties:	Not determined

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.