

Material Safety Data Sheet

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Version 1.1
According to 91/155/EEC

1 - Product and Company Information

Product Name RHODAMINE 6 G
Product Number 83698
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2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
RHODAMINE 6G	989-38-8	213-584-9	None
Formula C28H31N2O3.C1			
Molecular Weight 479.02 AMU			
Synonyms	Aizen Rhodamine 6GCP * Basic Red 1 * Basic Rhodamine Yellow * Basic Rhodaminic Yellow * Calcozine Red 6G * Calcozine Rhodamine 6GX * Cerven zasadita 1 (Czech) * C.I. 45160 * C.I. Basic Red 1 * C.I. Basic Red 1, monohydrochloride * Elcozine Rhodamine 6GDN * Eljon Pink Toner * Fanal Pink B * Fanal Pink GFK * Fanal Red 25532 * Flexo Red 482 * Heliostable Brilliant Pink B Extra * Mitsui Rhodamine * Mitsui Rhodamine 6GCP * NCI-C56122 * Nyco Liquid Red GF * Rh 6G * Rhodamine 590 chloride * Rhodamine 69DN Extra * Rhodamine F4G * Rhodamine F5G * Rhodamine F5G chloride * Rhodamine F 5GL * Rhodamine 6G * Rhodamine 6GB * Rhodamine 6G (biological stain) * Rhodamine 6GBN * Rhodamine 6G chloride * Rhodamine 6GCP * Rhodamine 4GD * Rhodamine 6GD * Rhodamine GDN * Rhodamine 5GDN * Rhodamine 6 GDN * Rhodamine 6 GDN Extra * Rhodamine 6GEX ethyl ester * Rhodamine 6G Extra * Rhodamine 6G Extra Base * Rhodamine 4GH * Rhodamine 6GH * Rhodamine 5GL * Rhodamine 6G Lake * Rhodamine 6GO * Rhodamine 6GX * Rhodamine J * Rhodamine 6JH * Rhodamine 7JH * Rhodamine		

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Not hazardous according to Directive 67/548/EC.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Wear dust mask.

Hand Protection: Protective gloves.

9 - Physical and Chemical Properties

Appearance	Physical State: Solid Color: Deep red Form: Powder	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	N/A	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides, Hydrogen chloride gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: DH0175000

ACUTE TOXICITY

LD50
Intraperitoneal
Mouse
6150 UG/KG

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Rat

Route of Application: Oral

Exposure Time: 2Y

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Rat

Route of Application: Subcutaneous

Exposure Time: 1Y

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

IARC CARCINOGEN LIST

Rating: Group 3

CHRONIC EXPOSURE - MUTAGEN

Mouse

2500 UG/L

Cell Type: lymphocyte

Mutation in mammalian somatic cells.

Hamster

90 UMOL/L

Cell Type: ovary

DNA damage

Hamster

20 MG/L

Cell Type: ovary

Cytogenetic analysis

Hamster

19900 UG/L

Cell Type: ovary

Sister chromatid exchange

CHRONIC EXPOSURE - TERATOGEN

Species: Mouse

Dose: 4 MG/KG

Route of Application: Intraperitoneal

Exposure Time: (7-10D PREG)

Result: Effects on Embryo or Fetus: Fetal death.

Species: Mouse

Dose: 2 MG/KG

Route of Application: Intraperitoneal
Exposure Time: (7-10D PREG)
Result: Effects on Embryo or Fetus: Other effects to embryo.

Species: Mouse
Dose: 2 MG/KG
Route of Application: Intraperitoneal
Exposure Time: (7-10D PREG)
Result: Effects on Embryo or Fetus: Other effects to embryo.
Specific Developmental Abnormalities: Musculoskeletal system.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Mouse
Dose: 2 MG/KG
Route of Application: Intraperitoneal
Exposure Time: (7-10D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

Not hazardous according to Directive 67/548/EC.

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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