



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	RHODAMINE B
Other identification (Chemical name, Commercial name, Synonymous)	TETRAETHYLRHODAMINE; TETRAETHYLDIAMINO-O-CARBOXY-PHENYL-XANTHENYL CHLORIDE; DIETHYL-M-AMINO-PHENOLPHTHALEIN HYDROCHLORIDE; (9(O-CARBOXYPHENYL)-6-(DIETHYLAMINO)-3H-XANTHEN-3-YLIDENE)DIETHYL AMMONIUM CHLORIDE.
Product code	RP-0101
Chemical formula	$C_{28}H_{31}ClN_2O_3$
Molar weight	479.02
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2025-12-04

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Serious eye damage/eye irritation - Eye irritation - category 1
- Acute toxicity - Oral - category 4

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Causes serious eye damage
- Harmful if swallowed

Precautionary statements (P)

- Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or a physician.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)

Health 1
Fire 1
Reactivity 0
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
RHODAMINE B	81-88-9	<=100%

SECTION 04 - FIRST AID MEASURE

Eye contact

Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.

Skin contact

Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.

Inhalation

Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.

Ingestion

If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects (acute and delayed)

Main symptoms of high exposure: Eyes irritation. Skin irritation. Cough. Chest pain. Nausea and vomiting. Ref. section 11.

Immediate medical attention and special treatment, if necessary

Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Gaseous Hydrogen Chloride. Carbon oxides. Carbon dioxide. Nitrogen oxides (NO _x).
Specific hazards of the dangerous product	May form combustible dust concentrations in the air. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures	Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust.
Methods and materials for containment and cleaning up	Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).
Methods of handling	Avoid contact withh eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use. Avoid the formation of dust.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
RHODAMINE B	81-88-9	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

Respiratory

If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

Gloves

Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

Eyes

Safety goggles with safety shutters.

Shoes

Use safety shoes.

Clothes

Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering control

Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Color	Green to reddish purple.
Odour	Odorless.
Odour threshold	Data not available.
Melting point and freezing point	165,00 °C.
Boiling point	Data not available.
Flammability	Yes.
Lower flammable / Explosive limit	Data not available.
Upper flammable / Explosive limit	Data not available.
Flash point	Data not available.
Auto-ignition temperature	Data not available.
Decomposition temperature	Data not available.
pH	Data not available.
Kinematic viscosity	Data not available.
Solubility	Soluble in water, alcohol, and benzene
Partition coefficient water/n-octanol	log Pow : 1.9 - 2.
Vapour pressure	Data not available.
Relative density	0.79g/cm³.
Vapour density	Data not available.
Particle characteristics	Crystalline powder.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Fine dusts of organic materials have the potential to form a combustible or explosive mixture with air if confined in a small space and subjected to an ignition source. May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May form combustible dust concentrations in the air. May react violently with incompatible substances.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid dust formation.
Incompatible materials	Bases. Strong oxidizers.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO2). Nitrogen oxides (NOx). Gaseous hydrogen chloride.

SECTION 11 - TOXICOLOGICAL INFORMATION

RHODAMINE B

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause severe eye irritation.
- Skin	Irritation.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Chest pain. Cough. Headaches. Nausea and vomiting. Dyspnoea.
Acute toxicity (Ingestion)	Mucous membrane irritation. Intense pain in the chest. Cough. Headaches. Nausea and vomiting.
Chronic exposure effects / symptoms	Nervous system disorders. Chest pain. Cough. Dyspnoea. Headache. Fatigue. Nausea and vomiting.
DL50 (specify species and route of entry)	LD50 Oral - Mouse - 887 mg/kg. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

RHODAMINE B

Ecotoxicity	Toxicity to fish: LC50 - Cyprinus carpio (Carp) - 83.9 mg/l/48H. LC50 - Lepomis macrochirus - 379 mg/l/96H. Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Water flea) - EC50 - 22.9 mg/l/48H. Toxicity to microorganisms:
Persistence and degradability	Biodegradability Result: 0% - not rapidly biodegradable.
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 24d. Bioconcentration factor (BCF): <0.2.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Serious eye damage/eye irritation - Eye irritation - category 1
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SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

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. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

LAST UPDATE: 2025-12-04