



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	EOSINE Y (SODIUM SALT)
Other identification (Chemical name, Commercial name, Synonymous)	EOSIN; ACID RED 87; EOSIN YELLOWISH; 2',4',5',7'-TETRABROMOFLUORESCEIN DISODIUM SALT; TETRABROMOFLUORESCEIN SOLUBLE; TETRABROMO-2',4',5',7' FLUORESCEINE, SEL DISODIQUE.
Product code	EP-0104
Chemical formula	$C_{20}H_6Br_4Na_2O_5$
Molar weight	691.88
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	2025-10-20

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA - Serious eye damage/eye irritation - Eye irritation - category 2A

PICTOGRAMS



Signal Word ATTENTION

Hazards statements (H) - Causes serious eye irritation

Precautionary statements (P)

- Wash thoroughly after handling.
- Wear protective gloves (nitrile, butyle, 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.
- If eye irritation persists get medical attention.

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

Health	2
Fire	1
Reactivity	0
Special danger	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Componente	No. CAS	% Weight
Eosin Y (sodium salt)	17372-87-1	<=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. Do NOT induce vomiting. 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. Redness. Cough. Burning sensation. Breathing difficulties. 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	Carbon dioxide (CO ₂), Foam, Dry powder.
Unsuitable extinguishing media	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Carbon dioxide. Gaseous hydrogen bromide. Sodium oxides.
Specific hazards of the dangerous product	May react violently with incompatible products (Ref Section 10). May form combustible dust concentrations in the air.
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). Preferably refrigerate. Protect from light and sunlight.
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
Eosin Y (sodium salt)	17372-87-1	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	Brown to Red.
Odour	Odorless.
Odour threshold	Data not applicable.
Melting point and freezing point	255 °C.
Boiling point	Data not available.
Flammability	Yes.
Lower flammable / Explosive limit	Data not available.
Upper flammable / Explosive limit	Data not available.
Flash point	191.6 °C @ 97.73 kPa.
Auto-ignition temperature	Data not available.
Decomposition temperature	Data not available.
pH	Data not available.
Kinematic viscosity	Data not available.
Solubility	131.43 g/L @ 25 °C in water.
Partition coefficient water/n-octanol	-1.33.
Vapour pressure	Data not available.
Relative density	Data not available.
Vapour density	Data not available.
Particle characteristics	Crystalline powder.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances. 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.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances. May form combustible dust concentrations in the air.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid dust formation.
Incompatible materials	Strong oxidizers. Strong acids. Reducing agents. Bases.
Hazardous decomposition products	Gaseous hydrogen bromide and/or bromine. Carbon monoxide (CO), Carbon dioxide (CO ₂). Sodium oxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

EOSINE Y (SODIUM SALT)

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	Dermatitis. Irritation. Redness.
- Inhalation	Cough. Breathing difficulties. Burning sensation.
Acute toxicity (Ingestion)	Gastrointestinal disorders. Mucous membrane irritation. Headaches. Diarrhea. Nausea and vomiting. Cheilitis. Facial dermatitis. Stomatitis.
Chronic exposure effects / symptoms	Burning sensation. Nervous system disorders. Cough. Dyspnoea. Laryngitis. Headache. Dizziness. Loss of appetite. Nausea and vomiting.
DL50 (specify species and route of entry)	LD50 Oral - Rat - >2000mg/kg. LD50 Dermal - Rat - >2000mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

EOSINE Y (SODIUM SALT)

Ecotoxicity	Toxicity to fish: LC50-Oryzias latipes: 1200 mg/L - 48 h. Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Water flea) - EC50 - Static test - > 100 mg/l - 48 h. Toxicity to algae: EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - Static test - 51.3 mg/L - 72 h.
Persistence and degradability	Biodegradability aerobic - Duration of exposure 28 days - Result: 94.56 %. Readily biodegradable
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	Data not available.

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 2A

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: 2025-10-20