

SAFETY DATA SHEET

ETHIDIUM BROMIDE, solution, 10mg/ml

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: CANUTEC 1-613-996-6666
Chemical Name: Ethidium bromide, solution, 10mg/ml
Catalog Number: ETB444

Potential Health Effects

Routes of entry: Eyes, skin, inhalation, ingestion.

Target Organs:, reproductive system

Eyes: Toxic when in contact with eyes. Harmful. Causes irritation.

Skin: Toxic when in contact with skin. Readily absorbed through skin. harmful.

Ingestion: Harmful if ingested.

Inhalation: Fatal if inhaled.

CHRONIC HEALTH HAZARDS; repeated exposure may cause dermatitis. May cause cancer. May cause CNS disturbances.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification

CLASSIFICATION:

Acute toxicity Oral,(category 3)
Acute toxicity Inhalation,(category 4)
Germ cell mutagenicity, (category 2)

PICTOGRAM:



SIGNAL WORD: Danger

HAZARD STATEMENTS:

H302 Harmful if swallowed.
H330 Fatal if inhaled.
H341 Suspected of causing genetic defects.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	RTECS	%
Ethidium Bromide	1239-45-8	SF7950000	1
Water:	7732-18-5		99

Ethidium bromide

Molecular Formula: C₁₂H₂₀BrN₃

Molecular Weight: 394.6

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water , GET MEDICAL ATTENTION

Skin: In case of contact, flush area immediately with water. Remove clothing. GET MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.

Ingestion: wash mouth with water. Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 FIRE FIGHTING MEASURES

Combustible solid. When dealing with fire wear self-contained breathing apparatus. Avoid hazardous vapors and dust.

Flammable: No

Flash Point: N/A

Autoignition Temperature: n/a

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Mini-

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mize dust generation. Use in fume hood.

Storage Conditions: Room temperature. Keep away from heat (above 50C) and ignition source.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

ACGIH: no information found

NIOSH: no information found /m3 IDLH

OSHA: no information found

Use adequate ventilation. AVOID DUST GENERATION.

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Local exhaust systems. Use fume hood

Respiratory protection: use NIOSH/MSHA approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: red color

Melting Point: N/A

Boiling Point: N/A

Specific Gravity: N/A

Vapor Density: N/A

Solubility: N/A

pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Conditions to avoid: spillage

Stability: Stable at normal room temperature and pressure. May polymerize if heated to the melting point. May polymerize on exposure to light. May form explosive dust –air mixtures.

Incompatibility: Metals, oxidizing agents, reducing agents, bases, and acids

Hazardous Decomposition Products: Thermal decomposition may produce toxic fumes of carbon monoxide and carbon dioxide, bromine gas.

Hazardous Polymerization: no information found

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

Ethidium bromide

ORL-RAT LD50:1000-2000 MG/KG

IPR-RAT LD50:16 MG/KG

INHALATION-RAT LD50:0.015 MG/KG

ORL MUS LD50:107MG/KG

Teratogenicity: no information found **Epidemiology:** no information found

Reproductive Effects: have occurred in experimental animals

Neurotoxicity: no information found

Mutagenicity: in vitro tests have shown mutagenic effects.

Carcinogenicity: no information found

NTP: no information found

IARC: no information found

SECTION 12 ECOLOGICAL INFORMATION

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

TDG (Canada)

UN number: 2811 Class: 6.1 Packing group: I

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.

IMDG

UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (3,8-Diamino-1-ethyl-6-phenylphenantridinium bromide)

IATA

UN number: 2811 Class: 6.1 Packing group: I

Proper shipping name: Toxic solid, organic, n.o.s. (3,8-Diamino-1-ethyl-6-phenylphenantridinium bromide)

IATA Passenger: Not permitted for transport

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

European/International:

Canada: WHMIS: D1B, D2A

Listed on DSL list. Controlled product.

Listed on the Canadian Ingredient Disclosure list.

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

Phone: (800) 234-1179

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