Ethidium Bromide, 1 ug/ml



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Ethidium Bromide, 1 ug/ml Science education applications Phenanthridinium, 2,7-diamino-9-phenyl-10-ethylphenanthridinium bromide Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Section 2



Suspected of causing genetic defects.

GHS Classification: Germ Cell Mutagenicity Category 2

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Section 3

Chemical Name Water

Ethidium Bromide

Section 4

Inhalation:

Ingestion:

Eyes:

First Aid Measures

Composition / Information on Ingredients

CAS #

7732-18-5

1239-45-8

%

0

100

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Skin Contact:

Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained **Fire Fighting Methods and Protection:** breathing apparatus. Fire and/or Explosion Hazards: None Known Hazardous Combustion Products: Carbon dioxide, Carbon monoxide Spill or Leak Procedures

Section 6

Steps to Take in Case Material Is **Released or Spilled:**

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8	Protection	nformation			
	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Ethidium Bromide	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.				
Respiratory Protection:	No respiratory protection required under normal conditions of use.				
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are				
Eye Protection:	above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	No information availab	le			

Section 9

Physical Data

Formula: C21H20BrN3 Molecular Weight: 394.32 (Ethidium Bromide) Appearance: Red - Orange Liquid Odor: No data. Odor Threshold: No data available pH: No data available Melting Point: Estimated 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 1 (est) Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization:

Not generally reactive under normal conditions. Stable under normal conditions. None known. Water-reactive materials Will not occur

Toxicity Data

Section 11

Routes of Entry Symptoms (Acute): Delayed Effects: Inhalation and ingestion. No data available No data available

Acute Toxicity: Chemical Name

CAS Number

Oral LD50

Dermal LD50

Inhalation LC50

Water Ethidium Bromide		732-18-5 239-45-8	Oral LD50 Ra 90000 mg/kg Oral LD50 Ra	at > Dermal I	LD50 Rat	Inhalation LC50		
			2000 mg/kg	> 2000 r	пд/кд	(1h) Rat 11.8 - 134 MG/L		
Carcinogenicity: Chemical Name Ethidium Bromide	12	CAS Number 239-45-8	IARC Not listed	Not liste	ITP d	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	Evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. No data available, Respiratory system No data available							
Section 12		E	cological D	Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	Mobility:This material is expected to have high mobility in soil. It absorbs weakly to most soil types.Persistence:No dataBioaccumulation:No dataDegradability:No data							
Chemical Name Water Ethidium Bromide	77	732-18-5	Eco Toxicity No data available No data available					
Section 13 Disposal Information								
Disposal Methods:Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.Waste Disposal Code(s):Not Determined								
Section 14 Transport Information								
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not regulated for transport by US DOT.Not regulated for air transport by IATA.								
Section 15 Regulatory Information								
TSCA Status: All components in this product are on the TSCA Inventory.								
Chemical Name	CAS Number	§ 313 Name	e § 304 RQ	CERCLA RQ	§ 302 TPC	Q CAA 112(2) TQ		
Ethidium Bromide	1239-45-8	No	No	No	No	No		

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health