

## Safety Data Sheet

Version 3.10 Revised: 2016-05-02

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Ethidium Bromide Stock Solution

Other means of identification

 Product Code(s)
 A2510

 UN/ID no.
 2810

Synonyms No information available

**Product Use** For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Germ cell mutagenicity Category 2

#### Label elements

#### **Emergency Overview**

#### Warning

#### Hazard statements

H341 - Suspected of causing genetic defects



Appearance Dark red haze-free

Physical State Liquid

**Odor** No information available

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Use personal protective equipment as required

**Precautionary Statements - Response** 

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage** 

Store locked up

**Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not regulated

Other Information

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
3,8-Diamino-1-ethyl-6-ph enylphenantridinium	1239-45-8	214-984-6	1	Not applicable
bromide				

## 4. FIRST AID MEASURES

**First Aid Measures** 

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If breathing becomes difficult, give oxygen. Consult a physician.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

#### **Specific Hazards Arising from the Chemical**

No information available.

**Hazardous Combustion** 

**Products** 

Emits toxic fumes.

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**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**Absorb with sand or vermiculite. Pick up and transfer to properly labeled containers.

Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

**Handling** Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
3,8-Diamino-1-ethyl-6-phenylphena ntridinium bromide	-	-	-

#### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields. Avoid contact with eyes.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State** Liquid

**Appearance** Dark red haze-free Odor No information available Color No information available **Odor Threshold** No information available

**Property Values** 

Hq No information available

Melting point/freezing point

**Boiling Point/Range** No information available Flash Point (High in °C) No information available **Evaporation Rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available Vapor Density No information available **Specific Gravity** No information available Water Solubility No information available Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive Properties** No information available

#### Other Information

**Oxidizing Properties** 

**Softening Point** No information available **Molecular Weight** No information available **VOC Content** No information available Density No information available **Bulk Density** No information available

#### 10. STABILITY AND REACTIVITY

No information available

#### Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid** 

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

Strong oxidizing agents.

## **Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NOx). Hydrogen bromide.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Harmful by inhalation.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
3,8-Diamino-1-ethyl-6-phenylphena	-	-	-
ntridinium bromide			

#### Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
3,8-Diamino-1-ethyl-6-pheny lphenantridinium bromide	-	-	-	-
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Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

**Chronic Toxicity** May cause heritable genetic damage.

**Aspiration hazard** No information available.

## Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

#### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
3,8-Diamino-1-ethyl-6-phenylphena ntridinium bromide	-	-	-

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
3,8-Diamino-1-ethyl-6-phenylphenantridinium bromide	-

Other Adverse Effects No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
3,8-Diamino-1-ethyl-6-pheny	-	-	-	-
Iphenantridinium bromide				

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
3,8-Diamino-1-ethyl-6-pheny Iphenantridinium bromide	-	-	-	-

Chemical Name	California Hazardous Waste Status
3,8-Diamino-1-ethyl-6-phenylphenantridinium bromide	-

## 14. TRANSPORTINFORMATION

DOT

**UN/ID no.** 2810

Proper shipping name Toxic, liquid, organic, N.O.S. (contains Ethidium Bromide)

Hazard Class 6.
Packing Group

IATA

**UN/ID no.** 2810

**Proper shipping name** Toxic, liquid, organic, N.O.S. (contains Ethidium Bromide)

Hazard Class 6.1
Packing Group

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply **DSL/NDSL** Does not comply **EINECS/ELINCS** Complies **ENCS** Does not Comply **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
3,8-Diamino-1-ethyl-6-phenylphenantridinium bromide	-

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
3,8-Diamino-1-ethyl-6-pheny lphenantridinium bromide	-	-	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
3,8-Diamino-1-ethyl-6-phenylphena ntridinium bromide	-	-	-

## **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65	
3,8-Diamino-1-ethyl-6-phenylphenantridinium bromide	-	

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
3,8-Diamino-1-ethyl-6-phenylphena ntridinium bromide	-	-	-

## **U.S. EPA Label Information**

EPA Pesticide Registration Number Not regulated

#### **16. OTHER INFORMATION**

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information

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relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**