



1121 5th Street NW
Washington, DC 20001
www.edvotek.com

Safety Data Sheet

Version 3
Revision Date 05/14/2025

PRODUCT AND COMPANY IDENTIFICATION

Product name: InstaStain Ethidium Bromide	Telephone: 1-800-338-6835 or 202-370-1500
Product Number: 2000, 2002, 20005	Fax: 202-370-1501
Brand: Edvotek	Emergency Phone # (For both supplier and Manufacturer):
Supplier: Edvotek	202-370-1500
1121 5 th Street NW	
Washington, DC 20001	

HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 2)
Germ Cell mutagenicity (Category 2)
Skin irritant (Category 2)

Signal word

Danger

Pictograms



Hazard statement(s)

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

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P281 Use personal protective equipment as required.

P310

Immediately call a POISON CENTER or doctor/ physician

HMIS Classification:

Health hazard: 3

Flammability: 0

Physical hazard: 0

NFPA Rating:

Health hazard: 4

Fire: 0

Reactivity Hazard: 0

OSHA Hazards

Highly toxic by inhalation, Harmful by ingestion, Mutagen

Potential Health Effects:

Inhalation May be harmful if inhaled.

May cause respiratory tract irritation.

Skin- May be harmful if absorbed through skin. May cause skin irritation.

Eyes-May cause eye irritation.

Ingestion- Harmful if swallowed.

COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: EtBr

3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide

Homidium bromide

Formula: C₂₁H₂₀BrN₃

Molecular Weight: 394.31 g/mol

Chemical name	EC No.	CAS -No	Concentration
3,8-Diamino-1-ethyl-6-phenylphenanthridinium bromide	214-984-6	1239-45-8	

FIRST AID MEASURES FIREFIGHTING MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

In case of eye contact

Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Emits toxic fumes.

ACCIDENTAL RELEASE MEASURES

Personal precautions

Prevent skin/eye contact. Use personal protective equipment as needed.

Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up

Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Incompatible storage

Strong oxidizing agent

Conditions for safe storage

Keep in the dark in a dry and well-ventilated place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection

Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection

Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form chemical bound to paper
 Colour no color

Safety data

pH	4.0-7.0
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition Temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient:	
n-octanol/water	no data available
Relative vapour Density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

No further relevant data available.

Conditions to avoid

No further relevant data available.

Possibility of hazardous reactions

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas.

Hazardous decomposition products

TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

LD50

Oral-rat-1,503 -2,177 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Inhalation LC50

LC50

Inhalation-rat-1 h-11.8 -134 mg/l

Respiratory or skin sensitization

no data available

Dermal LD50

no data available

Germ cell mutagenicity

In vitro tests showed mutagenic effects

no data available

Reproductive toxicity

no data available

Aspiration hazard

no data available

Teratogenicity

no data available

Synergistic effects

no data available

ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Mobility in soil

no data available

Bioaccumulative potential

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

DISPOSAL CONSIDERATIONS

Product

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

Contaminated packaging

Dispose of as unused product.

TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

REGULATORY INFORMATION

OSHA Hazards

Highly toxic by inhalation, Harmful by ingestion. Mutagen

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard.

OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.