

Safety Data Sheet

Ethidium Homodimer I (EthD-I)



SECTION 1: Identification of the Substances and the Company/Undertaking

Identification of the Substance or Mixture

Product Name: Ethidium Homodimer I

Catalog No: 5010

Company/Undertaking Identification

Ion Biosciences

3055 Hunter Road, Box 3

San Marcos, TX 78666

+1 512.957.9123

24 hour Emergency Response

866.536.0631

301.431.8585

+1 301.431.8585 (Outside the U.S.)

For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards Identification

GHS - Classification

Signal word: Danger

Hazard Pictograms:



Health Hazards: Skin corrosion/irritation- Category 1B, Serious eye damage/irritation- Category 1, Carcinogenicity- Category 2.

Physical Hazards: GHS Physical Hazard- Substances and mixtures which in contact with water emit flammable gas- Category 3

Hazard statements: H261- In contact with water releases flammable gases.

H314- Causes severe skin burns.

H318- Causes serious eye damage.

H351- Suspected of causing cancer.

Precautionary Statements

Prevention: P223- Do not allow contact with water.

P280- Wear protective gloves/clothing/eye and face protection.

P201- Obtain special instructions before use.

P264- Wash hands thoroughly after handling.

P231 + P232- Handle under inert gas. Protect from moisture.

Response: P303+ P361 + P353- IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. P370 + P378- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing.

P308 + P313- If exposed or concerned: Get medical advice/attention.

P302 + P335 + P334- IF ON SKIN: Brush off loose particles from skin. Immerse in cool water (or wrap in wet bandages).

Storage: P402 + P404- Store in a dry place. Store in a closed container.

Disposal: P501- Dispose of contents/container to an approved waste disposal plant.

HMIS

Health	4
Flammability	0
Reactivity	0

SECTION 3: Composition/Information on Ingredients

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to regulation (EC)No1278/2008
Ethidium Homodimer I	61926-22-5	-	-	90-100	-

SECTION 4: First Aid Measures

Skin contact: Rinse with water and soap for several minutes. If irritation persists, seek medical care.

Eye contact: Flush eyes with water for 15 minutes. If irritation persists, seek medical care.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth with water. Seek medical care

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration and seek medical care.

Most important symptoms and effects, both acute and delayed: H261- In contact with water releases flammable gases, H314- Causes severe skin burns and eye damage, H318- Causes serious eye damage, H351- Suspected of causing cancer.

Notes to physician: Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Water spray. Carbon Dioxide (CO₂) Foam. Dry chemical.

Unsuitable extinguishing media: Not known.

Specific hazards arising from the chemical: Not known.

Advice for firefighters: Standard procedure for chemical fires.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Always wear recommended Personal Protective Equipment.

Environmental precautions: No special environmental precautions required.

Methods and material for containment and cleaning up: Take up mechanically, placing in appropriate containers for disposal.

SECTION 7: Handling and Storage

Handling: Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities: Store at –20°C. Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s): For research use only.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters/Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ethidium homodimer I	None	None	None	None

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Exposure Controls

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Hand protection: Wear suitable gloves. Glove material: Compatible chemical resistant gloves.

Skin and Body protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear respirators and components tested and approved under appropriate government standards.

Eye protection: Tight sealing safety glasses.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties.

Appearance: Solid, red colored film or pellet.

Odor: No data available.

Odor threshold: No data available.

pH: No data available.

Boiling point/boiling range: No data available.

Melting point/melting range: No data available.

Flash point: No data available.

Evaporation rate: No data available.

Flammability: No data available.

Explosive Limits: No data available.

Vapor pressure: No data available.

Vapor density: No data available.

Relative density: No data available.

Solubility: Soluble in water.

Partition coefficient (n-octanol/water): No data available.

Autoignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

SECTION 10: Stability and Reactivity

Reactivity: None known.

Stability: Stable under normal conditions.

Possibility of hazardous reactions: Has not been reported.

Conditions to avoid: No information available.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions.—Carbon oxides, sulfur oxides.

SECTION 11: Toxicological Information

Information on toxicological effects

Oral LD50	No data available.
Dermal LD50	No data available.
Inhalation LD50	No data available.

Carcinogenicity: Contains a known or suspected carcinogen.

Germ cell mutagenicity: Data are conclusive but insufficient for classification.

Reproductive toxicity: Data are conclusive but insufficient for classification.

Aspiration hazard: Data are conclusive but insufficient for classification.

Principal Routes of Exposure

Acute Toxicity: Data are conclusive but insufficient for classification.

Skin corrosion/irritation: Causes skin burns.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: Data are conclusive but insufficient for classification.

GHS

Specific target organ toxicity— single exposure: No data available.

Specific target organ toxicity— repeated exposure: No data available.

SECTION 12: Ecological Information

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Ethidium homodimer I	No data available.	No data available.	No data available.	No data available.	No data available.

Mobility in soil: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Results of PBT and vPvB assessment: This mixture does not contain substances that are assessed to be a PBT or a vPvB.

Other adverse effects: No information available.

SECTION 13: Disposal Considerations

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or lines may retain some product residues.

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport Information

IATA/ADR/DOT-US/IMDG: Not classified as dangerous in the meaning of transport regulations.

UN number: 3096

UN proper shipping name: CORROSIVE SOLID, WATER-REACTIVE, N.O.S. (5,5'-[Ethylenebis(iminotrimethylene)]bis[3,8-diamino-6-ph enylphenanthridinium] dichloride dihydrochloride)

Transport hazard class(es): 8 (4.3)

Packing group: II

Environmental hazards: Not applicable.

Special precautions for use: Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the

IBC Code: Not applicable.

SECTION 15: Regulatory Information

Component	US TSCA
Ethidium homodimer I 61926-22-1	-

US Federal Regulations

SARA 313: This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61): This product does not contains HAPs.

US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class: E– Corrosive materials, D2A– Very toxic materials.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16: Other Information

For Research Use Only. Not for use in diagnostic procedures.

"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.

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