

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name	Atlas Ethidium Bromide Solution
Catalog number	BA01901 BA01902
Manufacturer/Supplier	Bioatlas Riia 181A Tartu, 51014 Estonia Phone: +372 5562 4867 Fax: +372 616 6755
Information in case of emergency	Phone: +372 5562 4867 e-mail: info@bioatlas.com

2. COMPOSITION/ INFORMATION ON INGREDIENTS

The product contains: 99% water and 1% Ethidium bromide (EtBr).

3. HAZARDS IDENTIFICATION

EtBr is a potent mutagen and moderately toxic after an acute exposure. EtBr can be absorbed through the skin, so it is important to avoid any direct contact with the chemical. EtBr is also an irritant to the skin, eyes, mouth, and upper respiratory tract. It should be stored away from strong oxidizing agents in a cool, dry place and the container must be kept undamaged and tightly closed.

4. FIRST-AID MEASURES

Inhalation	Move to fresh air. If breathing becomes difficult, call a physician.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Skin contact	Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.
Eye contact	Rinse opened eye immediately with plenty of water. If irritation persists, get medical attention.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or alcohol resistant foam.
Fire/Explosion hazards	Not applicable.
Protective equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Use personal protective equipment. Ensure adequate ventilation.
Methods for cleaning up	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

7. HANDLING AND STORAGE	
Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage	Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure limits	None listed.
Personal protective equipment	
Respiratory protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
Hand protection	Protective gloves.
Eye protection	Protective goggles.
Skin and body protection	Appropriate protective clothing.
Hygiene measures	Do not eat, drink or smoke when handling this product. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Form	Solution.
Color	Red-Orange.
Odor	Odorless.
Ph value	Undetermined.
Boiling point	Undetermined.
Melting point	Undetermined.
Vapor pressure	No information available.
Relative density	No information available.
Water solubility	Easily soluble.

10. STABILITY AND REACTIVITY

Conditions to avoid	Excess heat.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:	
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract.
Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.
Sensitization	The material should be assumed to be at least moderately hazardous. Gastrointestinal upset with possible liver or kidney damage are suggested by the compound's structure.
Additional toxicological information	When used and handled according to specifications, the product does not have any harmful effects to our experience. The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Waste handling and disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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14. TRANSPORT INFORMATION

This substance is considered to be non-hazardous for transport.

15. REGULATORY INFORMATION

Labeling according to EU guidelines	This product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.
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16. OTHER INFORMATION

MSDS Creation Date: 04.08.2008/ **Revision date:** 02/08/2011

This information is believed to be accurate and represents the best information currently available to us. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Bioatlas is not held liable for any damage resulting from handling or from contact with the above mentioned products.