



## Material Safety Data Sheet

**Product Category:** Propidium Iodide Staining Solution; Aqueous buffered solution containing 8 µg/ml Propidium Iodide and 0.09% sodium azide.

**Revision date:** December 2010

**Emergency telephone number:**  
Center for Disease Control: (404) 633-5313

### 1. IDENTIFICATION OF SUPPLIER / SUBSTANCE

eBioscience 888-810-6168  
10255 Science Center Drive.  
San Diego, CA  
92121  
USA

### 2. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**  
**Physical State:** Liquid  
**Color:** Red  
**Odor:** None  
**Flash Point:** Not determined  
**Auto igniting:** Not determined

### 3. HAZARDS IDENTIFICATION

**General Hazard Information:** The toxicological properties of products have not been fully investigated. Always follow Good Laboratory and Industrial Hygiene Practices and wear proper personal protective equipment when handling chemicals.

**Most Important Hazards:**  
**Risk Phases:**

R22 – Harmful if swallowed  
R36 – Irritating to eyes  
R37 – Irritating to respiratory system  
R38 – Irritating to skin



**NFPA Rating:**  
(Scale 0-4)

Health = not determined  
Fire = not determined  
Reactivity = not determined

**Physical/Health Effects:**

Not determined

**Principle routes of exposure:**

Oral: Yes  
Eye contact: Yes  
Skin contact: Yes  
Ingestion: Yes  
Inhalation: Yes

**Carcinogenicity Rating:**

Not rated

Component(s)	CAS Number	NTP:	IARC:	California Proposition 65 List
N/A	N/A	Not listed	Not listed	N/A

**Signs and Symptoms:**

Unknown

**Medical Conditions**

**Aggravated by Exposure:**

Unknown

#### 4. COMPOSITION / COMPONENT INFORMATION

Components	CAS Number	Weight %	(TWA-8 hr)	(STEL):	(Ceiling Limit Value):	PBOEL
N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Exposure Limits:**

Not determined

#### 5. FIRST AID MEASURES

**Eye Contact:**

Check for contact lenses and remove if present. Flush eyes with large volumes of water for at least 15 minutes. Seek medical attention if eyes remain red and/or irritated.

**Ingestion:**

Seek medical attention or call poison control center immediately.

Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical attention immediately.

**Skin Contact:**

Wash contact areas thoroughly with soap and water after handling. Seek medical attention if area remains irritated. Immediately remove contaminated clothing; contaminated clothing should not be worn until after it has been properly cleaned.

**Protection of First-Aid Providers**

Wear appropriate self-contained breathing apparatus and protective garments.

**6. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Use media appropriate for site conditions.

**Extinguishing media which must not be used for safety reasons:**

Unknown

**Special Protective Equipment for**

Wear appropriate self-contained breathing apparatus and protective garments.

**Specific Hazards:**

None known.

**Hazardous Combustion Products:**

Unknown

**Explosion Limits:**

Lower:

N/A

Upper:

N/A

**7. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Wash any exposed body area thoroughly with soap and water after completion of activities involving product.

**Environmental Precautions:**

Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.

**Methods for Clean Up:**

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste, including absorbent material used to clean spills, in accordance with applicable laws.



## 8. HANDLING AND STORAGE

### Handling

#### Technical Measures/Precautions:

Provide adequate local exhaust ventilation. Wear chemical resistant gloves, and eye protection, lab coat, apron or other protective clothing to minimize contact. Eyewash stations and deluge showers should be available. Observe appropriate laboratory hygiene practices. Avoid contact with skin or eyes.

### Storage

#### Technical Measures/Storage Conditions:

Store at 2-8°C. Protect material from light.

#### Incompatible Products:

Stable. See enclosed data sheet for product-specific storage information.

## 9. EXPOSURE CONTROL/PERSONAL PROTECTION

#### Exposure Limits:

Not determined

#### Engineering controls:

Provide adequate local exhaust ventilation.

#### Personal Protective Equipment:

##### Eye Protection:

Wear safety glasses. Eyewash stations and deluge showers should be available.

##### Hand Protection:

Wear chemical-resistant gloves.

##### Skin and Body Protection

Wear a lab coat, apron or other protective clothing to minimize contact.

#### Respiratory Protection:

None required if ventilation is adequate.

#### Other General Precautions:

None required

## 10. STABILITY AND REACTIVITY

#### Chemical Stability:

Stable under recommended storage conditions.

#### Hazardous Polymerization:

Unknown

#### Hazardous Decomposition Products:

Unknown

#### Materials to Avoid:

Unknown

#### Conditions to Avoid:

Unknown

**11. TOXICOLOGICAL INFORMATION****Acute effects**

Oral:	Not determined.
Eye irritation:	Not determined
Skin irritation:	Not determined
Inhalation:	Not determined

**Chronic effects**

Oral:	Not determined
Inhalation:	Not determined
Dermal:	Not determined

The complete properties have not been investigated; however, similar compounds are known to be chemically reactive with proteins and other biochemicals and should be treated as potentially hazardous.

**12. ECOLOGICAL INFORMATION**

Eco-Toxicity Effects:	Unknown
Aquatic Toxicity Effects:	Do not allow product to reach ground water, water course, or sewage system.
Mobility:	Unknown
Persistence/degradability:	Unknown
Bioaccumulation:	Unknown
Degradation:	Unknown

**13. DISPOSAL CONSIDERATIONS**

<b>Waste from Residual/Unused Products:</b>	Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.
<b>Contaminated Packaging:</b>	Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.
<b>Methods for Clean Up:</b>	Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

**14. TRANSPORT INFORMATION**

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

## 15. REGULATORY INFORMATION

### Indication of Danger:

#### R-Phrases

- R22- Harmful if swallowed
- R36- Irritating to eyes
- R37 – Irritating to respiratory system
- R38 – Irritating to skin

#### S- Phrases

- S14 - Keep from long-term exposure to light.
- S28 – After contact with skin, wash thoroughly with water.

#### SARA (311,312) Hazard Class

Immediate Health:	None
Delayed Health:	None
Fire:	None
Sudden Release of Pressure Hazard:	None
Reactivity:	None

TSCA inventory List: Unknown

#### WHMIS

WHMIS Trade Secret:	None
WHMIS Hazard Class:	Not listed

Canada DSL Inventory List: Unknown

#### Notes:

1. SARA= Superfund Amendments and the Reauthorization Act.
2. CERCLA= Comprehensive Environmental Response, Compensations and Liability Act.
3. FIFRA= Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA= Toxic Substance Control Act.
5. WHMIS=Canadian Workplace Hazardous Material Information System.
6. This product has been classified in accordance with the hazards criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. OTHER INFORMATION



**This data sheet contains changes from the previous version in section(s):** N/A

**Additional Advice:** None

**Literary Reference:** None

**MSDS Formats:** North American Format- U.S. and Canada  
This Material Safety Data Sheet was prepared in accordance with OSHA 29 CFR 1910.1200.

European Format  
This material Data Sheet was prepared in accordance with 93/112/EEC.

**Test of R Phrases**  
Unknown

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