SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Form: Mixture
Product Name: 10X Propidium Iodide
Product Code: 4830-250-3

1.2. Intended Use of the Product
No use is specified

1.3. Name, Address, and Telephone of the Responsible Party
Company
Trevigen Inc.
8405 Helgerman Court
20877 Gaithersburg, MD 20877
T 1-800-TREVIGEN

1.4. Emergency Telephone Number
Emergency Number: 301-216-2800

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Not classified

2.2. Label Elements
GHS-US Labeling
There are no hazardous ingredients as defined in the United States 29 CFR 1910.1200 (OSHA) or the Canadian Controlled Products Regulations (WHMIS) and therefore not subject to the labelling requirements of the aforementioned standards.

2.3. Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable

3.2. Mixture
There are no hazardous ingredients present at or above the reporting threshold as defined in the United States 29 CFR 1910.1200 (OSHA) or the Canadian Controlled Products Regulations (WHMIS).

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Skin Contact: Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
Ingestion: Do not induce vomiting. Rinse mouth. Seek medical attention if a large amount is swallowed.

4.2. Most Important Symptoms and Effects Both Acute and Delayed
General: Not expected to present a significant hazard under anticipated conditions of normal use.
Inhalation: May cause respiratory irritation.
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Ingestion: Ingestion is likely to be harmful or have adverse effects.
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Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media
Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture
Fire Hazard: Not flammable.
Explosion Hazard: Product is not explosive.
Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures Not available

6.1.1. For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.2. For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections
See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Comply with applicable regulations.
Storage Conditions: Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures, and incompatible materials.

7.3. Specific End Use(s)
No use is specified.

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1. Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.
8.2 Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not expected to present an explosion hazard due to static discharge</td>
</tr>
</tbody>
</table>
**SECTION 10: STABILITY AND REACTIVITY**

10.1. **Reactivity**: Hazardous reactions will not occur under normal conditions.

10.2. **Chemical Stability**: Stable under recommended handling and storage conditions (see section 7).

10.3. **Possibility of Hazardous Reactions**: Hazardous polymerization will not occur.

10.4. **Conditions to Avoid**: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

10.5. **Incompatible Materials**: Strong acids, strong bases, strong oxidizers.


**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1. **Information on Toxicological Effects - Product**

   **Acute Toxicity**: Not classified
   **LD₅₀ and LC₅₀ Data**: Not available
   **Skin Corrosion/Irritation**: Not classified
   **Serious Eye Damage/Irritation**: Not classified
   **Respiratory or Skin Sensitization**: Not classified
   **Germ Cell Mutagenicity**: Not classified
   **Reproductive Toxicity**: Not classified
   **Specific Target Organ Toxicity (Repeated Exposure)**: Not classified
   **Specific Target Organ Toxicity (Single Exposure)**: Not classified
   **Aspiration Hazard**: Not classified
   **Symptoms/Injuries After Inhalation**: May cause respiratory irritation
   **Symptoms/Injuries After Skin Contact**: May cause skin irritation
   **Symptoms/Injuries After Eye Contact**: May cause eye irritation
   **Symptoms/Injuries After Ingestion**: Ingestion is likely to be harmful or have adverse effects
   **Chronic Symptoms**: None expected under normal conditions of use

11.2. **Information on Toxicological Effects - Ingredient(s)**

   **LD₅₀ and LC₅₀ Data**: Not available

**SECTION 12: ECOLOGICAL INFORMATION**

12.1. **Toxicity**: No additional information available

12.2. **Persistence and Degradability**: Not available

12.3. **Bioaccumulative Potential**: Not available

12.4. **Mobility in Soil**: Not available

12.5. **Other Adverse Effects**: Not available

**SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. **Waste treatment methods**

   **Waste Disposal Recommendations**: Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.

**SECTION 14: TRANSPORT INFORMATION**

14.1. **In Accordance with DOT**: Not regulated for transport

14.2. **In Accordance with IMDG**: Not regulated for transport

14.3. **In Accordance with IATA**: Not regulated for transport

14.4. **In Accordance with TDG**: Not regulated for transport

**SECTION 15: REGULATORY INFORMATION**

15.1. **US Federal Regulations**

   All of the ingredients in this product are listed on the United States TSCA (Toxic Substances Control Act) inventory, the Domestic Substances List (DSL) and/or the Non-Domestic Substances List (NDSL).
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15.2. US State Regulations

The product and/or its components does not appear on any state Right to Know lists or the Canadian Ingredient Disclosure List (IDL) at or above the reporting threshold.

15.3. Canadian Regulations

<table>
<thead>
<tr>
<th>10X Propidium Iodide</th>
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<tbody>
<tr>
<td>WHMIS Classification</td>
</tr>
</tbody>
</table>

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

SECTON 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>03/17/2015</td>
</tr>
<tr>
<td>Other Information</td>
<td>This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.</td>
</tr>
</tbody>
</table>

Party Responsible for the Preparation of This Document
Trevigen INC. 8405 Helgerman Court Gaithersburg, MD 20877 T: 301-216-2800

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2