**SECTION 1: Identification**

1.1. **Identification**

Product form : Mixtures

Product name : Potassium Iodate-Iodide, 0.0125N (0.002083M)

Product code : LC19660

1.2. **Recommended use and restrictions on use**

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

1.3. **Supplier**

LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. **Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

**SECTION 2: Hazard(s) identification**

2.1. **Classification of the substance or mixture**

GHS-US classification

Not classified

2.2. **GHS Label elements, including precautionary statements**

Not classified as a hazardous chemical.

Other hazards not contributing to the classification : None.

2.4. **Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/Information on ingredients**

3.1. **Substances**

Not applicable

3.2. **Mixtures**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>99.49</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potassium Iodide</td>
<td>(CAS-No.) 7681-11-0</td>
<td>0.44</td>
<td>Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>Potassium Iodate</td>
<td>(CAS-No.) 7758-05-6</td>
<td>0.04</td>
<td>Ox. Sol. 3, H272</td>
</tr>
<tr>
<td>Sodium Bicarbonate</td>
<td>(CAS-No.) 144-55-8</td>
<td>0.03</td>
<td>Eye Irrit. 2B, H320</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

**SECTION 4: First-aid measures**

4.1. **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
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4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary
No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical
No additional information available

5.3. Special protective equipment and precautions for fire-fighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Protective equipment: Safety glasses. Gloves.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

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
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures: Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from incompatible materials, Heat sources, Direct sunlight. Keep container closed when not in use.

Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium Iodate (7758-05-6)
Not applicable

Potassium Iodide (7681-11-0)
ACGIH ACGIH TWA (ppm) 0.01 ppm Inhalable fraction

Water (7732-18-5)
Not applicable
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8.2. Appropriate engineering controls

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

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>Clear, colorless liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>None.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>
9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and eye contact</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Water (7732-18-5)**

- **LD50 oral rat**: ≥ 90000 mg/kg
- **ATE US (oral)**: 90000 mg/kg body weight

**Sodium Bicarbonate (144-55-8)**

- **LD50 oral rat**: 4220 mg/kg
- **ATE US (oral)**: 4220 mg/kg body weight

- **Skin corrosion/irritation**: Not classified
- **Serious eye damage/irritation**: Not classified
- **Respiratory or skin sensitization**: Not classified
- **Germ cell mutagenicity**: Not classified
- **Carcinogenicity**: Not classified
- **Reproductive toxicity**: Not classified
- **Specific target organ toxicity – single exposure**: Not classified
- **Specific target organ toxicity – repeated exposure**: Not classified
- **Aspiration hazard**: Not classified
- **Potential Adverse human health effects and symptoms**: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

**Potassium Iodide (7681-11-0)**

- **LC50 fish 1**: 3200 mg/l 120 h
- **EC50 Daphnia 1**: 2.7 mg/l 24 h

**Sodium Bicarbonate (144-55-8)**

- **LC50 fish 1**: 8250 - 9000 mg/l
Sodium Bicarbonate (144-55-8)  
EC50 Daphnia 1  2350 mg/l

12.2. Persistence and degradability

Potassium Iodate-Iodide, 0.0125N (0.002083M)  
Persistence and degradability  Not established.

Potassium Iodate (7758-05-6)  
Persistence and degradability  Biodegradability: not applicable. Biodegradability in soil: not applicable.
Biochemical oxygen demand (BOD)  Not applicable
Chemical oxygen demand (COD)  Not applicable
ThOD  Not applicable

Potassium Iodide (7681-11-0)  
Persistence and degradability  Not established.

Water (7732-18-5)  
Persistence and degradability  Not established.

Sodium Bicarbonate (144-55-8)  
Persistence and degradability  Not established.

12.3. Bioaccumulative potential

Potassium Iodate-Iodide, 0.0125N (0.002083M)  
Bioaccumulative potential  Not established.

Potassium Iodate (7758-05-6)  
Log Pow  -7.18 (Estimated value)
Bioaccumulative potential  Bioaccumulation: not applicable.

Potassium Iodide (7681-11-0)  
Bioaccumulative potential  Not established.

Water (7732-18-5)  
Bioaccumulative potential  Not established.

Sodium Bicarbonate (144-55-8)  
Bioaccumulative potential  Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information  :  Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations  :  Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials  :  Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)  
In accordance with DOT  
Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
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<table>
<thead>
<tr>
<th>Chemical</th>
<th>SARA Section 311/312 Hazard Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Iodate (7758-05-6)</td>
<td>Reactive hazard</td>
</tr>
<tr>
<td>Potassium Iodide (7681-11-0)</td>
<td>Immediate (acute) health hazard</td>
</tr>
<tr>
<td></td>
<td>Delayed (chronic) health hazard</td>
</tr>
<tr>
<td>Sodium Bicarbonate (144-55-8)</td>
<td>Immediate (acute) health hazard</td>
</tr>
</tbody>
</table>

15.2. International regulations

CANADA

Potassium Iodate (7758-05-6)
Listed on the Canadian DSL (Domestic Substances List)

Potassium Iodide (7681-11-0)
Listed on the Canadian DSL (Domestic Substances List)

Sodium Bicarbonate (144-55-8)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations

Potassium Iodate (7758-05-6)
Not listed on the Canadian IDL (Ingredient Disclosure List)

Potassium Iodide (7681-11-0)
Listed on the Canadian IDL (Ingredient Disclosure List)

Sodium Bicarbonate (144-55-8)
Not listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 02/13/2018
Other information : None.

Full text of H-phrases: see section 16:

- H272 May intensify fire; oxidizer
- H320 Causes eye irritation
- H401 Toxic to aquatic life

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.
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Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B

  B - Safety glasses, Gloves

SDS US LabChem

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