

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name. : Potassium Iodate-Iodide, 0.0125N (0.002083M)  
 Product code : LC19660

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

#### 1.3. Details of the supplier of the safety data sheet

LabChem Inc  
 Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
 Zellenople, PA 16063 - USA  
 T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

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

##### GHS-US classification

Not classified

#### 2.2. Label elements

##### GHS-US labelling

No labelling applicable

#### 2.3. Other hazards

Other hazards not contributing to the classification : None.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

| Name               | Product identifier | %     | GHS-US classification |
|--------------------|--------------------|-------|-----------------------|
| Water              | (CAS No) 7732-18-5 | 99.49 | Not classified        |
| Potassium Iodide   | (CAS No) 7681-11-0 | 0.44  | Eye Irrit. 2B, H320   |
| Potassium Iodate   | (CAS No) 7758-05-6 | 0.04  | Ox. Sol. 3, H272      |
| Sodium Bicarbonate | (CAS No) 144-55-8  | 0.03  | Eye Irrit. 2B, H320   |

### 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 : Assure fresh air breathing. 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 persist.  
 First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# Potassium Iodate-Iodide, 0.0125N (0.002083M)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter 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 vapour.  
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 products : Strong bases. Strong acids. Strong reducing agents.  
Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.  
Personal protective equipment : Avoid all unnecessary exposure.  
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

Physical state : Liquid

# Potassium Iodate-Iodide, 0.0125N (0.002083M)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|  |                            |
|--|----------------------------|
| Appearance                                 | : Clear, colorless liquid. |
| Colour                                     | : Colourless.              |
| Odour                                      | : None.                    |
| Odour threshold                            | : No data available        |
| pH   | : No data available        |
| Relative evaporation rate (butylacetate=1) | : No data available        |
| Melting point                              | : No data available        |
| Freezing point                             | : No data available        |
| Boiling point                              | : No data available        |
| Flash point                                | : No data available        |
| Self ignition temperature                  | : No data available        |
| Decomposition temperature                  | : No data available        |
| Flammability (solid, gas)                  | : No data available        |
| Vapour pressure                            | : No data available        |
| Relative vapour density at 20 °C           | : No data available        |
| Relative density                           | : 1                        |
| Solubility                                 | : Soluble in water.        |
| Log Pow                                    | : No data available        |
| Log Kow                                    | : No data available        |
| Viscosity, kinematic                       | : No data available        |
| Viscosity, dynamic                         | : No data available        |
| Explosive properties                       | : Not applicable.          |
| Oxidising properties                       | : No data available        |
| Explosive limits                           | : No data available        |

### 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

Strong acids. Strong bases. Strong reducing agents.

### 10.6. Hazardous decomposition products

Iodine vapour. Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Water (7732-18-5)

|               |               |
|---------------|---------------|
| LD50 oral rat | ≥ 90000 mg/kg |
|---------------|---------------|

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

|               |            |
|---------------|------------|
| LD50 oral rat | 4220 mg/kg |
|---------------|------------|

|                                   |                  |
|-----------------------------------|------------------|
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |

# Potassium Iodate-Iodide, 0.0125N (0.002083M)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 fishes 1                | 3200 mg/l 120 h |
| EC50 Daphnia 1               | 2.7 mg/l 24 h   |

| Sodium Bicarbonate (144-55-8) |                  |
|-------------------------------|------------------|
| LC50 fishes 1                 | 8250 - 9000 mg/l |
| 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  |
| BOD (% of ThOD)                 | Not applicable  |

| Potassium Iodide (7681-11-0)  |                  |
|-------------------------------|------------------|
| 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. |

| 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. Waste treatment 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

In accordance with DOT

### 14.1. UN number

No dangerous good in sense of transport regulations

# Potassium Iodate-Iodide, 0.0125N (0.002083M)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 14.2. UN proper shipping name

Not applicable

### 14.3. Additional information

Other information : No supplementary information available.

### Overland transport

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Potassium Iodate (7758-05-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                                     |                 |
|-------------------------------------|-----------------|
| SARA Section 311/312 Hazard Classes | Reactive hazard |
|-------------------------------------|-----------------|

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                                     |  |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
|-------------------------------------|--|

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

### 15.2. International regulations

#### CANADA

#### Potassium Iodate-Iodide, 0.0125N (0.002083M)

|                      |   |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

#### Potassium Iodate (7758-05-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

|                      |                              |
|----------------------|------------------------------|
| WHMIS Classification | Class C - Oxidizing Material |
|----------------------|------------------------------|

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

Listed on the Canadian DSL (Domestic Substances List) inventory.

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

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

Listed on the Canadian DSL (Domestic Substances List) inventory.

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

### EU-Regulations

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2.2. National regulations

#### Potassium Iodate (7758-05-6)

Not listed on the Canadian Ingredient Disclosure List

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

Listed on the Canadian Ingredient Disclosure List

# Potassium Iodate-Iodide, 0.0125N (0.002083M)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Not listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

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

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

|               |  |
|---------------|--|
| Eye Irrit. 2B | Serious eye damage/eye irritation, Category 2B |
| Ox. Sol. 3    | Oxidising Solids, Category 3                   |
| H272          | May intensify fire; oxidiser                   |
| H320          | Causes eye irritation                          |

NFPA health hazard

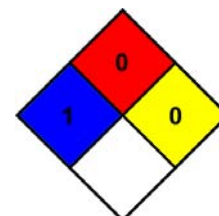
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 0 Minimal Hazard

Physical

: 0 Minimal Hazard

Personal Protection

: B

SDS US (GHS HazCom 2012)

*Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.*