SECTION 1: Identification

1.1. Identification
Product form : Mixtures
Product name : Starch-Iodide Solution
Product code : LC25330

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 +1-703-741-5970

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>99.32</td>
<td>Not classified</td>
</tr>
<tr>
<td>Starch, Soluble</td>
<td>(CAS-No.) 9005-25-8</td>
<td>0.5</td>
<td>Not classified</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>(CAS-No.) 69-72-7</td>
<td>0.13</td>
<td>Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Potassium Iodide</td>
<td>(CAS-No.) 7681-11-0</td>
<td>0.05</td>
<td>Aquatic Acute 2, H401</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.
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.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : No data available.
Symptoms/effects upon intravenous administration : Not available.
Chronic symptoms : No specific information available.

4.3. Immediate medical attention and special treatment, if necessary

None.

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

Fire hazard : Not flammable.
Explosion hazard : Not applicable.
Reactivity : None.

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.
Other information : Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency respondents

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Starch-Iodide Solution
Safety Data Sheet

Starch, Soluble (9005-25-8)

<table>
<thead>
<tr>
<th></th>
<th>ACGIH ACGIH TWA (mg/m³)</th>
<th>10 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>NIOSH NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

Salicylic Acid (69-72-7)
Not applicable

Water (7732-18-5)
Not applicable

Potassium Iodide (7681-11-0)

<table>
<thead>
<tr>
<th></th>
<th>ACGIH ACGIH TWA (ppm)</th>
<th>0.01 ppm Inhalable fraction</th>
</tr>
</thead>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls : 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:
Respiratory protection not required in normal conditions

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
Color : milky
Odor : odorless
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Non flammable.
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Starch-Iodide Solution
Safety Data Sheet

Specific gravity / density : 1
Solubility : Soluble in water.
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None.

10.2. Chemical stability
Not established.

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.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact
Acute toxicity : Not classified

Salicylic Acid (69-72-7)

LD50 oral rat 891 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value)
LD50 dermal rat > 2000 mg/kg (Rat)
LD50 dermal rabbit > 10000 mg/kg (Rabbit)
ATE US (oral) 891 mg/kg body weight

Water (7732-18-5)

LD50 oral rat ≥ 90000 mg/kg
ATE US (oral) 90000 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

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity – single exposure : Not classified
### Starch-Iodide Solution

#### Safety Data Sheet

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

<table>
<thead>
<tr>
<th>Specific target organ toxicity – repeated exposure</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Symptoms/effects after inhalation</td>
<td>None under normal use.</td>
</tr>
<tr>
<td>Symptoms/effects after skin contact</td>
<td>No data available.</td>
</tr>
<tr>
<td>Symptoms/effects upon intravenous administration</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chronic symptoms</td>
<td>No specific information available.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Salicylic Acid (69-72-7)**
- **LC50 fish 1**: 90 mg/l (DIN 38412-15, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value)
- **EC50 Daphnia 1**: 870 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

**Potassium Iodide (7681-11-0)**
- **LC50 fish 1**: 3200 mg/l 120 h
- **EC50 Daphnia 1**: 2.7 mg/l 24 h

#### 12.2 Persistence and degradability

**Starch-Iodide Solution**
- Persistence and degradability: Not established.

**Salicylic Acid (69-72-7)**
- Persistence and degradability: Biodegradable in the soil. Readily biodegradable in water.
- **Biochemical oxygen demand (BOD)**: 0.95 g O₂/g substance
- **Chemical oxygen demand (COD)**: 1.58 g O₂/g substance
- **ThOD**: 1.623 g O₂/g substance
- **BOD (% of ThOD)**: 0.41 - 0.60

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

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

#### 12.3 Bioaccumulative potential

**Starch-Iodide Solution**
- Bioaccumulative potential: Not established.

**Salicylic Acid (69-72-7)**
- Log Pow: 2.25 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
- **Bioaccumulative potential**: Low potential for bioaccumulation (Log Kow < 4).

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

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

<table>
<thead>
<tr>
<th>Potassium Iodide (7681-11-0)</th>
</tr>
</thead>
</table>
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard/Delayed (chronic) health hazard

15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>Starch, Soluble (9005-25-8)</th>
</tr>
</thead>
</table>
| Listed on the Canadian DSL (Domestic Substances List)

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<thead>
<tr>
<th>Salicylic Acid (69-72-7)</th>
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| Listed on the Canadian DSL (Domestic Substances List)

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<tr>
<th>Potassium Iodide (7681-11-0)</th>
</tr>
</thead>
</table>
| Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

No additional information available

**National regulations**

<table>
<thead>
<tr>
<th>Salicylic Acid (69-72-7)</th>
</tr>
</thead>
</table>
| Listed on the Canadian IDL (Ingredient Disclosure List)

<table>
<thead>
<tr>
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</tr>
</thead>
</table>
| 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 : 04/25/2018

Other information : None.
**Starch-Iodide Solution**

Safety Data Sheet

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

NFPA health hazard: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

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.

Hazard Rating

Health: 0 Minimal Hazard - No significant risk to health

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:

A - Safety glasses

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