1. IDENTIFICATION

Product identifier
Product Name
Nessler Reagent

Other means of identification
Product Code(s)
2119449

Safety data sheet number
M00503

UN/ID no
UN2922

Synonyms

Recommended use of the chemical and restrictions on use
Recommended Use
Laboratory reagent. Determination of ammonium nitrogen.
Uses advised against
None.
Restrictions on use
None.

Details of the supplier of the safety data sheet

Manufacturer Address
Hach Company
P.O.Box 389  Loveland, CO 80539 USA
(970) 669-3050

Emergency telephone number
(303) 623-5716 - 24 Hour Service  (515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Aquatic Acute Toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

Signal word - Danger
Hazard statements
H301 - Toxic if swallowed
H310 - Fatal in contact with skin
H314 - Causes severe skin burns and eye damage
H331 - Toxic if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P262 - Do not get in eyes, on skin, or on clothing
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P271 - Use only outdoors or in a well-ventilated area
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P273 - Avoid release to the environment
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P305 + P351 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P330 - Rinse mouth
P391 - Collect spillage
P405 - Store locked up
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

Other Information
Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</th>
<th>Percent Range</th>
<th>HMRIC #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>10 - 20%</td>
<td>-</td>
</tr>
<tr>
<td>Mercuric iodide</td>
<td>7774-29-0</td>
<td>5 - 10%</td>
<td>-</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>7681-82-5</td>
<td>3 - 7%</td>
<td>-</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Description of first aid measures

General advice
See section 8 for PPE that may be required during handling. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If no local exhaust use approved fume hood or self-contained breathing apparatus. IF exposed: Call a POISON CENTER or doctor/physician. Immediate medical attention is required. Remove from exposure, lie down. IF IN EYES: Flush eyes for at least 15 minutes. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Skin contact
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.

Ingestion
IF SWALLOWED: Rinse Mouth. Call a physician immediately. Do NOT induce vomiting.

Self-protection of the first aider
First aider: Pay attention to self-protection. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Symptoms
See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
Caution: Use of water spray when fighting fire may be inefficient.

Flammable properties
During a fire, irritating and highly toxic gases may be generated by thermal decomposition.

Specific hazards arising from the chemical
The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products
Mercury. Sodium oxides. Iodine compounds.

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective suit.

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.
6. ACCIDENTAL RELEASE MEASURES

U.S. Notice
Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

EC Notice
Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

WHMIS Notice
Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions
Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required.

For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions
Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up
Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws.

Emergency Response Guide Number
154

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Flammability class
Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 10 - 20%</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³</td>
<td>IDLH: 10 mg/m³ Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Mercuric iodide 5 - 10%</td>
<td>TWA: 0.025 mg/m³ TWA: 0.01 ppm SKN*</td>
<td>TWA: 0.025 mg/m³ TWA: 0.01 ppm SKN*</td>
<td>(vacated) Ceiling: 0.1 mg/m³ TWA: 0.05 mg/m³ except Organo alkyls Hg vapor IDLH: 10 mg/m³ Hg Ceiling: 0.1 mg/m³ SKN*</td>
</tr>
<tr>
<td>Sodium iodide 3 - 7%</td>
<td>TWA: 0.01 ppm</td>
<td>NDF</td>
<td>NDF</td>
</tr>
</tbody>
</table>

### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Alberta OEL</th>
<th>British Columbia OEL</th>
<th>Manitoba OEL</th>
<th>New Brunswick OEL</th>
<th>New Foundland &amp; Labrador OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 10 - 20%</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Mercuric iodide 5 - 10%</td>
<td>TWA: 0.025 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ SKN*</td>
</tr>
<tr>
<td>Sodium iodide 3 - 7%</td>
<td>NDF</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
</tr>
</tbody>
</table>

### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Northwest Territories OEL</th>
<th>Nova Scotia OEL</th>
<th>Nunavut OEL</th>
<th>Ontario TWA</th>
<th>Prince Edward Island OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 10 - 20%</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Mercuric iodide 5 - 10%</td>
<td>TWA: 0.025 mg/m³ STEL: 0.075 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ TWA: 0.01 ppm SKN*</td>
<td>TWA: 0.025 mg/m³ STEL: 0.075 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ TWA: 0.01 ppm SKN*</td>
<td>TWA: 0.025 mg/m³ TWA: 0.01 ppm SKN*</td>
</tr>
<tr>
<td>Sodium iodide 3 - 7%</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
<td>TWA: 0.01 ppm</td>
</tr>
</tbody>
</table>

### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Quebec OEL</th>
<th>Saskatchewan OEL</th>
<th>Yukon OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 10 - 20%</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Mercuric iodide 5 - 10%</td>
<td>TWA: 0.025 mg/m³ SKN*</td>
<td>TWA: 0.025 mg/m³ STEL: 0.075 mg/m³ SKN*</td>
<td>NDF</td>
</tr>
</tbody>
</table>

### Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Legend

See section 16 for terms and abbreviations

### Appropriate engineering controls

**Engineering Controls**

If no local exhaust use approved fume hood or self-contained breathing apparatus

Shower

Eyewash stations

### Individual protection measures, such as personal protective equipment

**Eye/face protection**

Wear tight sealing safety goggles and/or face protection shield. Avoid contact with eyes.

**Skin and body protection**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection**

Do not breathe gas/fumes/vapor/spray. If no local exhaust use approved fume hood or self-contained breathing apparatus. Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**

Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes or clothing. Use
personal protective equipment as required. Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin. Take off all contaminated clothing and wash it before reuse.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Gas Under Pressure</td>
<td>Not classified according to GHS criteria</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>aqueous solution</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>yellow</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Not determined</td>
<td>Odor threshold</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>~ -21 °C / -6 °F</td>
<td>Estimation based on theoretical calculation</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>110 °C / 230 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>1.07 (water = 1)</td>
<td>Estimation based on theoretical calculation</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>21.602 mm Hg / 2.88 kPa at 25 °C / 77 °F</td>
<td>Estimation based on theoretical calculation</td>
</tr>
<tr>
<td>Vapor density (air = 1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific gravity (water = 1 / air = 1)</td>
<td>1.265</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Soil Organic Carbon-Water Partition Coefficient</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>110 °C</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Solubility(ies)

Water solubility
Solubility in other solvents

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Solubility classification</th>
<th>Solubility</th>
<th>Solubility Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>None reported</td>
<td>No information available</td>
<td>No data available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Other Information

Metal Corrosivity

Classified as corrosive to metal according to GHS criteria

GHS Metal Corrosivity Classification

Category 1, H290

Steel Corrosion Rate

No data available

Aluminum Corrosion Rate

No data available

Bulk density

Not applicable

Explosive properties

Not classified according to GHS criteria.

Explosion data

No data available

Upper explosion limit

No data available

Lower explosion limit

No data available

Flammable properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition.

Flammability Limit in Air

Upper flammability limit:

No data available

Lower flammability limit:

No data available

Flash point

No data available

Method

No information available

Oxidizing properties

Not classified according to GHS criteria.

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

10. STABILITY AND REACTIVITY

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

Chemical stability

Stable under recommended storage conditions.

Special dangers of the product

None reported

Possibility of Hazardous Reactions
None under normal processing.

**Hazardous polymerization**
Hazardous polymerization does not occur.

**Conditions to avoid**
Extremes of temperature and direct sunlight. Incompatible materials.

**Incompatible materials**

**Hazardous Decomposition Products**
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosive properties**
Not classified according to GHS criteria.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Sensitivity to Static Discharge**
None reported

**Sensitivity to Mechanical Impact**
None reported

### 11. TOXICOLOGICAL INFORMATION

**NIOSH (RTECS) Number**
None reported

**Information on Likely Routes of Exposure**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Information</strong></td>
<td>Fatal in contact with skin. Toxic by ingestion. Toxic if inhaled. Corrosive to skin. Corrosive to eyes.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Avoid breathing dust/fume/gas/mist/vapors/spray. Toxic by inhalation. Immediate medical attention is required. Causes burns. Corrosive by inhalation.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>Corrosive to the eyes and may cause severe damage including blindness. Causes burns. Corrosive to eyes.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Fatal in contact with skin. Cause severe skin burns and eye damage. Causes burns.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Toxic if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Causes burns.</td>
</tr>
<tr>
<td><strong>Aggravated Medical Conditions</strong></td>
<td>Eye disorders. Skin disorders. Respiratory disorders.</td>
</tr>
<tr>
<td><strong>Toxicologically synergistic products</strong></td>
<td>None known.</td>
</tr>
<tr>
<td><strong>Toxicokinetics, metabolism and distribution</strong></td>
<td>No information available.</td>
</tr>
</tbody>
</table>

**Product Acute Toxicity Data**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Exposure Route</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal Exposure Route</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Inhalation (Dust/Mist) Exposure Route
No data available

Inhalation (Vapor) Exposure Route
No data available

Inhalation (Gas) Exposure Route
No data available

The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral)   | 189.00 mg/kg |
| ATEmix (dermal) | 53.00 mg/kg  |
| ATEmix (inhalation-dust/mist) | 0.53 mg/L |

**Ingredient Acute Toxicity Data**

**Oral Exposure Route**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide</td>
<td>Rat LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>18 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>Rat LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>4340 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Rabbit LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>500 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Dermal Exposure Route**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Rabbit LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>1350 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>IUCLID (The International Uniform Chemical Information Database)</td>
</tr>
<tr>
<td>Mercuric iodide</td>
<td>Rat LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>75 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
</tbody>
</table>

Inhalation (Dust/Mist) Exposure Route
No data available

Inhalation (Vapor) Exposure Route
If available, see data below

Inhalation (Gas) Exposure Route
No data available

**Product Skin Corrosion/Irritation Data**
No data available.

**Ingredient Skin Corrosion/Irritation Data**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Test method</th>
<th>Species</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Results</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (10-20%)</td>
<td>Patch test</td>
<td>Human</td>
<td>20 mg</td>
<td>24 hours</td>
<td>Corrosive to skin</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>Standard Draize</td>
<td>Rabbit</td>
<td>500 mg</td>
<td>24 hours</td>
<td>Skin irritant</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
</tbody>
</table>
Product Code(s) 2119449
Issue Date 07-Jun-2016
Revision Date 02-Feb-2017

(3 - 7%)
CAS#: 7681-82-5

Test

Product Name Nessler Reagent
Revision Date 02-Feb-2017
Page 10 / 19

Product Serious Eye Damage/Eye Irritation Data
No data available.

Ingredient Eye Damage/Eye Irritation Data
If available, see data below

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Test method</th>
<th>Species</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Results</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Standard Draize Test</td>
<td>Rabbit</td>
<td>0.05 mg</td>
<td>24 hours</td>
<td>Corrosive to eyes</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>(10 - 20%) CAS#: 1310-73-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>Standard Draize Test</td>
<td>Rabbit</td>
<td>100 mg</td>
<td>24 hours</td>
<td>Eye irritant</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>(3 - 7%) CAS#: 7681-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route No data available.
Respiratory Sensitization Exposure Route No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route No data available.
Respiratory Sensitization Exposure Route No data available.

Chronic Toxicity Information

Product Repeat Dose Toxicity Data

Oral Exposure Route No data available.
Dermal Exposure Route No data available.
Inhalation (Dust/Mist) Exposure Route No data available.
Inhalation (Vapor) Exposure Route No data available.
Inhalation (Gas) Exposure Route No data available.

Ingredient Repeat Dose Toxicity Data

Oral Exposure Route No data available
Dermal Exposure Route No data available
Inhalation (Dust/Mist) Exposure Route No data available
Inhalation (Vapor) Exposure Route No data available
Inhalation (Gas) Exposure Route No data available
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Mercuric iodide</td>
<td>7774-29-0</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>7681-82-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Legend**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH (American Conference of Governmental Industrial Hygienists)</td>
<td>Does not apply</td>
</tr>
<tr>
<td>IARC (International Agency for Research on Cancer)</td>
<td>Group 3 - Not classifiable as a human carcinogen</td>
</tr>
<tr>
<td>NTP (National Toxicology Program)</td>
<td>Does not apply</td>
</tr>
<tr>
<td>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</td>
<td>Does not apply</td>
</tr>
</tbody>
</table>

**Product Carcinogenicity Data**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Dust/Mist)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Vapor)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Ingredient Carcinogenicity Data**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Dust/Mist)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Vapor)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Product Germ Cell Mutagenicity Data**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Dust/Mist)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Vapor)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Ingredient Germ Cell Mutagenicity Data**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Dust/Mist)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Vapor)</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation (Gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Inhalation (Vapor) Exposure Route
No data available

Inhalation (Gas) Exposure Route
No data available

Oral Exposure Route
No data available

Dermal Exposure Route
No data available

Inhalation (Dust/Mist) Exposure Route
No data available

Inhalation (Vapor) Exposure Route
No data available

Inhalation (Gas) Exposure Route
No data available

Ingredient Reproductive Toxicity Data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium iodide (3 - 7%)</td>
<td>Woman TDLo</td>
<td>9240 mg/kg</td>
<td>43 weeks</td>
<td>Effects on Newborn Other neonatal measures or effects Specific Developmental Abnormalities Endocrine System</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>CAS#: 7681-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dermal Exposure Route
No data available

Inhalation (Dust/Mist) Exposure Route
If available, see data below

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide (5 - 10%)</td>
<td>Rat TC50</td>
<td>0.000004870 mg/L</td>
<td>22 days</td>
<td>Effects on Embryo or Fetus Fetal death Effects on Fertility Post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inhalation (Vapor) Exposure Route
No data available

Inhalation (Gas) Exposure Route
No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life with long lasting effects.

Product Ecological Data

Aquatic toxicity

Fish
No data available

Crustacea
No data available

Algae
No data available

Terrestrial toxicity

Soil
No data available

Vertebrates
No data available
Ingredient Ecological Data

Aquatic toxicity

**Fish**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure time</th>
<th>Species</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>96 hours</td>
<td>Oncorhynchus mykiss</td>
<td>LC₅₀</td>
<td>45.4 mg/L</td>
<td>IUCLID (The International Uniform Chemical Information Database)</td>
</tr>
<tr>
<td>(10 - 20%) CAS#: 1310-73-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercuric iodide</td>
<td>96 hours</td>
<td>Leuciscus idus</td>
<td>LC₅₀</td>
<td>0.13 mg/L</td>
<td>Vendor SDS</td>
</tr>
<tr>
<td>(5 - 10%) CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>96 hours</td>
<td>Oncorhynchus mykiss</td>
<td>LC₅₀</td>
<td>3780 mg/L</td>
<td>EPA (United States Environmental Protection Agency)</td>
</tr>
<tr>
<td>(3 - 7%) CAS#: 7681-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Crustacea**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure time</th>
<th>Species</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>48 Hours</td>
<td>Daphnia sp.</td>
<td>EC₅₀</td>
<td>40.4 mg/L</td>
<td>IUCLID (The International Uniform Chemical Information Database)</td>
</tr>
<tr>
<td>(10 - 20%) CAS#: 1310-73-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercuric iodide</td>
<td>48 Hours</td>
<td>Daphnia magna</td>
<td>EC₅₀</td>
<td>0.0052 mg/L</td>
<td>Vendor SDS</td>
</tr>
<tr>
<td>(5 - 10%) CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>48 Hours</td>
<td>Daphnia magna</td>
<td>EC₅₀</td>
<td>0.17 mg/L</td>
<td>EPA (United States Environmental Protection Agency)</td>
</tr>
<tr>
<td>(3 - 7%) CAS#: 7681-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Algae

No data available

Terrestrial toxicity

Soil

No data available

Vertebrates

No data available

Invertebrates

No data available

Other Information

**Canadian Environmental Protection Act (CEPA) - Domestic Substances List (DSL): Environmentally Hazardous Substances Categorizations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Category</th>
<th>Persistent</th>
<th>Bioaccumulation</th>
<th>Inherently Toxic to Aquatic Organisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide</td>
<td>Inorganics</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>(5 - 10%) CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>Inorganics</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>(3 - 7%) CAS#: 7681-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**

None known.
Product Biodegradability Data
If available, see ingredient data below.

Ingredient Biodegradability Data
Test data reported below

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Test method</th>
<th>Biodegradation</th>
<th>Exposure time</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (10 - 20%)</td>
<td>None reported</td>
<td>None reported</td>
<td>None reported</td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>CAS#: 1310-73-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercuric iodide (5 - 10%)</td>
<td>None reported</td>
<td>None reported</td>
<td>None reported</td>
<td>Not readily biodegradable</td>
</tr>
<tr>
<td>CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide (3 - 7%)</td>
<td>Inorganic Salt</td>
<td>None reported</td>
<td>None reported</td>
<td>Not readily biodegradable</td>
</tr>
<tr>
<td>CAS#: 7881-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bioaccumulation
None known.

Product Bioaccumulation Data
If available, see ingredient data below.

Ingredient Bioaccumulation Data
No data available

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Test method</th>
<th>Exposure time</th>
<th>Species</th>
<th>Bioconcentration factor (BCF)</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide (5 - 10%)</td>
<td>None reported</td>
<td>None reported</td>
<td>None reported</td>
<td>BCF &gt;= 500</td>
<td>Has the potential to bioaccumulate</td>
</tr>
<tr>
<td>CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information

Product Information

Partition Coefficient (n-octanol/water)
Not applicable

Ingredient Information

Mobility
Mobility in soil: High mobility. If available, see ingredient data below.

Product Information

Soil Organic Carbon-Water Partition Coefficient
Not applicable

Ingredient Information
No data available

Additional information

Water solubility

Product Information
### Ingredient Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Water solubility classification</th>
<th>Water solubility</th>
<th>Water solubility temperature °C</th>
<th>Water solubility temperature °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Completely soluble</td>
<td>420000 mg/L</td>
<td>0 °C</td>
<td>32 °F</td>
</tr>
<tr>
<td>CAS#: 1310-73-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercuric iodide</td>
<td>Slightly soluble</td>
<td>60 mg/L</td>
<td>25 °C</td>
<td>77 °F</td>
</tr>
<tr>
<td>CAS#: 7774-29-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>Completely soluble</td>
<td>200000 mg/L</td>
<td>20 °C</td>
<td>68 °F</td>
</tr>
<tr>
<td>CAS#: 7681-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other adverse effects**
No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes**
Disposal should be in accordance with applicable regional, national, and local laws and regulations.

**Contaminated packaging**
Do not reuse container.

**US EPA Waste Number**
D002, D009

**Special instructions for disposal**
Decontaminate any equipment or surfaces that have come in contact with mercury with commercially available mercury absorbing compounds. Dispose of all mercury contaminated material at an E.P.A. hazardous waste facility. Dispose of material in an E.P.A. approved hazardous waste facility.

### 14. TRANSPORT INFORMATION

**DOT**

- **UN/ID no**: UN2922
- **Proper shipping name**: Corrosive Liquid, Toxic, N.O.S.
- **DOT Technical Name**: (Mercuric Iodide/Sodium Hydroxide Solution)
- **Hazard Class**: 8
- **Subsidiary class**: 6.1
- **Packing Group**: II
- **Emergency Response Guide Number**: 154

**TDG**

- **UN/ID no**: UN2922
- **Proper shipping name**: Corrosive Liquid, Toxic, N.O.S.
- **TDG Technical Name**: (Mercuric Iodide/Sodium Hydroxide Solution)
- **Hazard Class**: 8
- **Subsidiary class**: 6.1
- **Packing Group**: II

**IATA**

- **UN/ID no**: UN2922
- **Proper shipping name**: Corrosive Liquid, Toxic, N.O.S.
IATA Technical Name  
(Mercuric Iodide/Sodium Hydroxide Solution)
Hazard Class 8
Subsidiary hazard class 6.1
Packing Group II
ERG Code 154

IMDG
UN/ID no UN2922
IMDG Technical Name (Mercuric Iodide/Sodium Hydroxide Solution)
Hazard Class 8
Subsidiary hazard class 6.1
Packing Group II
Marine pollutant This material meets the definition of a marine pollutant

Additional information
There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.
If the item is not in a reagent set or kit, the classification given above applies.
If the item is part of a reagent set or kit the classification would change to the following:
UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.
If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

National Inventories
TSCA Complies
DSL/NDSL Complies

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
TCSI Complies
AICS Complies
NZIoC Complies

EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS- Japan Existing and New Chemical Substances
IECSC- China Inventory of Existing Chemical Substances
KECL- Korean Existing and Evaluated Chemical Substances
PICCS- Philippines Inventory of Chemicals and Chemical Substances
TCSI- Taiwan Chemical Substances Inventory
AICS- Australian Inventory of Chemical Substances
NZIoC- New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide (CAS #: 7774-29-0)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute health hazard Yes
**Product Code(s)** 2119449
**Issue Date** 07-Jun-2016
**Revision Date** 02-Feb-2017
**Version** 4

**Chronic Health Hazard**
Yes

**Fire hazard**
No

**Sudden release of pressure hazard**
No

**Reactive Hazard**
No

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>1000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Mercuric iodide 7774-29-0</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>1000 lb</td>
<td>-</td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 454 kg final RQ</td>
</tr>
</tbody>
</table>

**US State Regulations**

**California Proposition 65**
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide (CAS #: 7774-29-0)</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

**IMERC:** Contains Mercury Dispose of in accordance with local, state and federal regulations or laws.

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Mercuric iodide 7774-29-0</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**
**EPA Pesticide Registration Number** Not applicable

**Canada - CEPA - Mercury Containing Products**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Canada - CEPA - Mercury Containing Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric iodide CAS#: 7774-29-0</td>
<td>Applies</td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Additional information**

Global Automotive Declarable Substance List (GADSL)
Special Comments
This product contains mercury and may be subject to reporting and recordkeeping requirements

NFPA and HMIS Classifications

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health hazards</td>
<td>Flammability</td>
<td>Physical Hazards</td>
<td>Personal protection</td>
</tr>
</tbody>
</table>

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH  
Immediately Dangerous to Life or Health

ACGIH  
ACGIH (American Conference of Governmental Industrial Hygienists)

NDF  
no data

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA  
TWA (time-weighted average)

MAC  
Maximum Allowable Concentration

X  
Listed

STEL  
STEL (Short Term Exposure Limit)

Ceiling  
Ceiling Limit Value

Vacated  
These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.

SKN*  
Skin designation

RSP+  
Respiratory sensitization

C  
Carcinogen

M  
mutagen

SKN+  
Skin sensitization

**  
Hazard Designation

R  
Reproductive toxicant

Prepared By  
Hach Product Compliance Department

Issue Date  
07-Jun-2016

Revision Date  
02-Feb-2017

Revision Note  
None

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet