1. IDENTIFICATION

Product identifier
Product Name Polyvinyl Alcohol Dispersing Agent

Other means of identification
Product Code(s) 2376526

Safety data sheet number M00527

Component of Kits or Sets 001-H03629.88; 142832; 2376526Q; 2458200; 2495300; 2495300K; 2608600; 9906530

Recommended use of the chemical and restrictions on use
Recommended Use Dispersing Agent / Stabilizer.
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

Product Information
Chemical Name Not applicable
Formula Not applicable
CAS No Not applicable
Alternate CAS Number Not applicable
NIOSH (RTECS) Number None reported

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not Hazardous Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)
Not applicable

Label elements
Hazard statements
EUH210 - Safety data sheet available on request

The product contains no substances which at their given concentration, are considered to be hazardous to health

Other Information
Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture

Percent ranges are used where confidential product information is applicable.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Percent Range</th>
<th>HMRIC #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>50 - 100</td>
<td>-</td>
</tr>
<tr>
<td>Iodine</td>
<td>7553-56-2</td>
<td>&lt;0.1</td>
<td>-</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>7681-82-5</td>
<td>&lt;0.1</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

General advice
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

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

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

Ingestion
IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

Self-protection of the first aider
Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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
Contact with combustible material may cause fire. Not flammable.

Specific hazards arising from the chemical
None reported.

Hazardous combustion products
This material will not burn.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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
Avoid release to the environment. 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
Not applicable

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 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine</td>
<td>STEL: 0.1 ppm</td>
<td>(vacated) Ceiling: 0.1 ppm</td>
<td>IDLH: 2 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 0.01 ppm</td>
<td>Ceiling: 1 mg/m³</td>
<td>Ceiling: 0.1 ppm</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>TWA: 0.01 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;0.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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>Iodine</td>
<td>Ceiling: 0.1 ppm</td>
<td>Ceiling: 0.1 ppm</td>
<td>TWA: 0.01 ppm</td>
<td>Ceiling: 0.1 ppm</td>
<td>TWA: 0.01 ppm</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 1 mg/m³</td>
<td></td>
<td>STEL: 0.1 ppm</td>
<td>Ceiling: 1 mg/m³</td>
<td>STEL: 0.1 ppm</td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>NDF</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
</tr>
<tr>
<td></td>
<td>&lt;0.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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>Iodine</td>
<td>Ceiling: 0.1 ppm</td>
<td>STEL: 0.1 ppm</td>
<td>Ceiling: 0.1 ppm</td>
<td>TWA: 0.01 ppm</td>
<td>STEL: 0.1 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 0.01 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium iodide</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
<td>NDF</td>
<td>TWA: 0.01 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;0.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Quebec OEL</th>
<th>Saskatchewan OEL</th>
<th>Yukon OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine</td>
<td>Ceiling: 0.1 ppm</td>
<td>Ceiling: 0.1 ppm</td>
<td>Ceiling: 0.7 ppm</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 1.0 mg/m³</td>
<td></td>
<td>Ceiling: 1 mg/m³</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
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear protective gloves and protective clothing.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.
General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls
Prevent product from entering drains. 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>Color</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight iodine</td>
<td>Purple to brown</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>5.4</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>0 °C / 32 °F</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>98 °C / 208 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>0.87 (water = 1)</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>23.552 mm Hg / 3.14 kPa at 25 °C / 77 °F</td>
<td>Estimation based on theoretical calculation</td>
</tr>
<tr>
<td>Vapor density (air = 1)</td>
<td>0.62 (air = 1)</td>
<td></td>
</tr>
<tr>
<td>Specific gravity (water = 1 / air = 1)</td>
<td>1.0042</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>~ 228 °C /</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>~ 1.004 cP (mPa s) at 20 °C / 68 °F</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>~ 1 cSt (mm²/s) at 20 °C / 68 °F</td>
<td></td>
</tr>
</tbody>
</table>

Solubility(ies)

Water solubility

<table>
<thead>
<tr>
<th>Water solubility classification</th>
<th>Water solubility</th>
<th>Water Solubility Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble</td>
<td>&gt; 1000 mg/L</td>
<td>25 °C / 77 °F</td>
</tr>
</tbody>
</table>
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>Acid</td>
<td>Soluble</td>
<td>&gt; 1000 mg/L</td>
<td>25 °C / 77 °F</td>
</tr>
</tbody>
</table>

Other Information

Metal Corrosivity
- Not classified as corrosive to metal according to GHS criteria
- Steel Corrosion Rate: 0.48 mm/yr / 0.02 in/yr
- Aluminum Corrosion Rate: 0.03 mm/yr / 0 in/yr

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
- Contact with combustible material may cause fire. Not flammable.

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 properties
- 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 properties
- 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
- Evaporation. Extreme temperatures.
Incompatible materials

Hazardous Decomposition Products
Carbon dioxide. Carbon monoxide.

Explosive properties
Not classified according to GHS criteria.

Upper explosion limit  No data available
Lower explosion limit  No data available

Autoignition temperature
No data available

Sensitivity to Static Discharge
None reported

Sensitivity to Mechanical Impact
None reported

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Product does not present an acute toxicity hazard based on known or supplied information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known effect based on information supplied.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No known effect based on information supplied.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No known effect based on information supplied.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known effect based on information supplied.</td>
</tr>
<tr>
<td>Aggravated Medical Conditions</td>
<td>None known.</td>
</tr>
<tr>
<td>Toxicologically synergistic products</td>
<td>None known.</td>
</tr>
<tr>
<td>Toxicokinetics, metabolism and distribution</td>
<td>See ingredients information below.</td>
</tr>
</tbody>
</table>

Chemical Name                  Toxicokinetics, metabolism and distribution
Iodine (<0.1)                  Food present in the digestive tract rapidly inactivates iodine by converting it to comparatively harmless iodide. Iodine is absorbed from the lung, converted to iodide in the body, and then excreted, mainly in urine.
CAS#: 7553-56-2

Product Acute 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 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>Iodine (&lt;0.1) CAS#: 7553-56-2</td>
<td>Human LD$_{50}$</td>
<td>28 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)</td>
</tr>
<tr>
<td>Sodium iodide (&lt;0.1) CAS#: 7681-82-5</td>
<td>Rat LD$_{50}$</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>

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

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>Iodine (&lt;0.1) CAS#: 7553-56-2</td>
<td>Organization for Economic Co-operation and Development (OECD) - Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method</td>
<td>None reported</td>
<td>10 mg</td>
<td>15 minutes</td>
<td>Data Source</td>
<td>ECHA (The European Chemicals Agency)</td>
</tr>
<tr>
<td>Sodium iodide (&lt;0.1) CAS#: 7681-82-5</td>
<td>Standard Draize Test</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 Serious Eye Damage/Eye Irritation Data
No data available.

Ingredient Eye Damage/Eye 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>Iodine (&lt;0.1)</td>
<td>Existing human experience</td>
<td>Human</td>
<td>None reported</td>
<td>None reported</td>
<td>Data Source</td>
<td>ChemADVISOR</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.

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) Does not apply

IARC (International Agency for Research on Cancer) Not classifiable as a human carcinogen

NTP (National Toxicology Program) Does not apply

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Product Carcinogenicity Data
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 Carcinogenicity 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

Product Germ Cell Mutagenicity *invitro* Data
No data available.

**Ingredient Germ Cell Mutagenicity *invitro* Data**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Test</th>
<th>Cell Strain</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>Iodine (&lt;0.1)</td>
<td>Chromosomal abberation</td>
<td>Syrian hamster embryo</td>
<td>0.4 mmol/L</td>
<td>None</td>
<td>Positive test result for mutagenicity</td>
<td>CCRIS (Chemical Carcinogenesis Research Information System)</td>
</tr>
<tr>
<td>CAS#: 7553-56-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iodine (&lt;0.1)</td>
<td>Chromosomal abberation</td>
<td>Syrian hamster embryo</td>
<td>0.6 mmol/L</td>
<td>None</td>
<td>Positive test result for mutagenicity</td>
<td>CCRIS (Chemical Carcinogenesis Research Information System)</td>
</tr>
<tr>
<td>CAS#: 7553-56-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iodine (&lt;0.1)</td>
<td>Chromosomal abberation</td>
<td>Syrian hamster embryo</td>
<td>0.8 mmol/L</td>
<td>None</td>
<td>Positive test result for mutagenicity</td>
<td>CCRIS (Chemical Carcinogenesis Research Information System)</td>
</tr>
<tr>
<td>CAS#: 7553-56-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 Germ Cell Mutagenicity invivo 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

**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>
</table>
| Iodine (<0.1)          | Rat TDLo      | 2750 mg/kg    | 22 days       | Effects on Newborn
Delayed effects
Growth statistics (e.g. stunted fetus)                                                  | RTECS (Registry of Toxic Effects of Chemical Substances)        |
| Sodium iodide (<0.1)   | Woman TDLo    | 9240 mg/kg    | 43 weeks      | Effects on Newborn
Other neonatal measures or effects
Specific Developmental Abnormalities
Endocrine System                                                                         | RTECS (Registry of Toxic Effects of Chemical Substances)        |

**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

---

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Based on the classification principles, not classified as hazardous to the environment.

**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

Invertebrates  
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 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>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 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>(&lt;0.1) 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>Sodium iodide (&lt;0.1)</td>
<td>Inorganics</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>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

Bioaccumulation
None known.

**Product Bioaccumulation Data**
Test data reported below.

**Ingredient Bioaccumulation Data**
No data available

**Additional information**

**Product Information**

**Partition Coefficient (n-octanol/water)**
Not applicable

**Ingredient Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient (n-octanol/water)</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (50 - 100) CAS#: 7732-18-5</td>
<td>Not applicable</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Water solubility classification</th>
<th>Water solubility</th>
<th>Water Solubility Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble</td>
<td>&gt; 1000 mg/L</td>
<td>25 °C / 77 °F</td>
</tr>
</tbody>
</table>

**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>Water (50 - 100) CAS#: 7732-18-5</td>
<td>Soluble</td>
<td>&gt; 1000 mg/L</td>
<td>25 °C</td>
<td>77 °F</td>
</tr>
<tr>
<td>Iodine (&lt;0.1) CAS#: 7553-56-2</td>
<td>Moderately soluble</td>
<td>&gt; 100 mg/L</td>
<td>25 °C</td>
<td>77 °F</td>
</tr>
<tr>
<td>Sodium iodide (&lt;0.1) CAS#: 7881-82-5</td>
<td>Completely soluble</td>
<td>2000000 mg/L</td>
<td>20 °C</td>
<td>68 °F</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
Working in a well-ventilated area. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P. A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Special instructions for disposal
If permitted by regulation, dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Dispose of material in an E.P.A. approved hazardous waste facility.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

Note: No special precautions necessary.

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
| Acute health hazard | No |
| Chronic Health Hazard | No |
| 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)

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

U.S. - DEA (Drug Enforcement Administration) List I & List II

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>U.S. - DEA (Drug Enforcement Administration) - List I or Precursor Chemicals</th>
<th>U.S. - DEA (Drug Enforcement Administration) - List II or Essential Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine (&lt;0.1) CAS#: 7553-56-2</td>
<td>No threshold under 21 CFR 1310.04</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

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>Water 7732-18-5</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Iodine 7553-56-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA and HMIS Classifications

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards - 0</th>
<th>Flammability - 0</th>
<th>Instability - 0</th>
<th>Physical and Chemical Properties -</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health hazards - 0</td>
<td>Flammability - 0</td>
<td>Physical hazards - 0</td>
<td>Personal protection - X</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

<table>
<thead>
<tr>
<th>TWA</th>
<th>TWA (time-weighted average)</th>
<th>STEL</th>
<th>STEL (Short Term Exposure Limit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC</td>
<td>Maximum Allowable Concentration</td>
<td>Ceiling</td>
<td>Ceiling Limit Value</td>
</tr>
<tr>
<td>X</td>
<td>Listed</td>
<td>Vacated</td>
<td>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 &quot;liberated&quot; exposure limits in their state regulations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SKN*</th>
<th>Skin designation</th>
<th>SKN+</th>
<th>Skin sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSP+</td>
<td>Respiratory sensitization</td>
<td>**</td>
<td>Hazard Designation</td>
</tr>
<tr>
<td>C</td>
<td>Carcinogen</td>
<td>R</td>
<td>Reproductive toxicant</td>
</tr>
<tr>
<td>M</td>
<td>mutagen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Prepared By: Hach Product Compliance Department

Issue Date: 07-Jun-2016

Revision Date: 12-Aug-2016

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