


## SECTION 1: Identification

<b>Product identifier</b>	
Product name	Iodide Iodate Reagent
Product number	R-0699; R-0699-PL
<b>Recommended use and restrictions</b>	Water analysis. To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.
<b>Manufacturer</b>	Taylor Water Technologies LLC 31 Loveton Circle Sparks, MD 21152 Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST
<b>Emergency phone number</b>	
CHEMTREC, United States	1-800-424-9300 – 24-hour service
CHEMTREC, International	+1 703-741-5970 – 24-hour service

## SECTION 2: Hazard(s) Identification

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Eye damage/irritation	Category 2A
	Specific target organ toxicity, repeated exposure	Category 1 (thyroid, oral route)
<b>Environmental hazards</b>	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.	
<b>Label elements</b>		
Hazard pictograms		
Signal word	Danger	
Hazard statements	Causes skin irritation and serious eye irritation. Causes damage to thyroid through prolonged or repeated exposure, oral route.	
Precautionary statements		
Prevention	Do not breathe dust/fumes/gas/mists/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/eye protection/face protection.	
Response	<p>IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical advice/attention.</p> <p>IF EXPOSED OR CONCERNED: Get medical advice/attention if you feel unwell.</p>	
Storage	Keep tightly capped. Store out of direct sunlight between 36°F–85°F.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazards not otherwise classified</b>	Not applicable	

## SECTION 3: Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	to 100
Potassium iodide	Hydriodic acid, potassium salt	7681-11-0	1-5

Potassium iodate	Iodic acid, potassium salt	7758-05-6	0.05-0.5
Potassium hydroxide	Caustic potash	1310-58-3	0.01-0.1

## SECTION 4: First-Aid Measures

### If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice/attention.

### If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

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

Direct skin or eye contact may cause irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

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

Provide general supportive measures and treat symptomatically.

### General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## SECTION 5: Firefighting Measures

### Extinguishing media

Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Specific hazards arising from the substance or mixture

Fire hazard	Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Hydrogen iodide, iodine fumes, potassium oxides.

### Advice for firefighters

Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Refer to section 9 of the SDS for flammability properties.

## SECTION 6: Accidental Release Measures

### Personal precautions, protective equipment, and emergency procedures

Wear appropriate protective equipment and clothing during cleanup. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

### Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

### Methods and material for containment and cleaning up

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of large spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

## SECTION 7: Handling and Storage

### Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

### Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure Controls/Personal Protection

### Occupational exposure limits

#### US ACGIH Threshold Limit Values

Components	Type	Value
Potassium iodide (CAS 7681-11-0), as I	TLV-TWA	0.01 mg/m <sup>3</sup> inhalable particulate matter

#### US NIOSH: Pocket Guide to Chemical Hazards

Not regulated

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Not regulated

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

#### Personal protective equipment

Eye/face protection	Wear appropriate safety glasses with side shields (or goggles).
Skin protection	Wear appropriate chemical-resistant gloves and clothing.
Body protection	Wear appropriate protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Clear, colorless to slightly yellow
Odor	Odorless
Odor threshold	No data available
pH	12
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	Not applicable
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available

Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Soluble in water
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

## SECTION 10: Stability and Reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions of use, storage, and transport.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions (refer to section 7 of the SDS).
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Metals.
<b>Hazardous decomposition products</b>	No hazardous decomposition products known.

## SECTION 11: Toxicological Information

<b>Information on likely routes of exposure</b>	
Inhalation	Avoid inhalation of this product. Use in a well-ventilated area.
Skin contact	Protect exposed skin from contact. Use caution to avoid splashes.
Eye contact	Avoid close eye contact; Use caution to avoid splashes. Wear eye protection.
Ingestion	Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after handling this product.
<b>Symptoms related to the physical, chemical, and toxicological characteristics</b>	Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include skin rash, running nose, headache, and irritation of the mucous membrane. In severe cases, skin may show pimples, boils, hives, blisters, and black and blue spots. Refer to section 4 of the SDS for most important symptoms and effects.
<b>Delayed and immediate effects and chronic effects from short- and long-term exposure</b>	
<b>Acute toxicity</b>	This product is not classified as an acute toxicity hazard.
<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	May cause serious eye irritation.
<b>Respiratory sensitization</b>	No data available
<b>Skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	Not classified
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)</b>	Not regulated
<b>US National Toxicology Program (NTP) Report on Carcinogens</b>	Not classified
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity (single exposure)</b>	No data available
<b>Specific target organ toxicity (repeated exposure)</b>	Causes damage to thyroid through prolonged or repeated exposure, oral route.
<b>Aspiration hazard</b>	No data available

## SECTION 12: Ecological Information

<b>Ecotoxicity</b>	This product is not classified as environmentally hazardous.
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<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Large or frequent spills can have a harmful or damaging effect on the environment.

### SECTION 13: Disposal Considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport Information

<b>DOT</b>	Not regulated as dangerous goods
<b>IATA</b>	Not regulated as dangerous goods
<b>IMDG</b>	Not regulated as dangerous goods

### SECTION 15: Regulatory Information

#### US federal regulations

##### **CERCLA Hazardous Substance (40 CFR 302.4)**

Not regulated

##### **SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)**

Not regulated

##### **SARA 304 Emergency Release Notification**

Not regulated

##### **SARA 311/312 Hazardous Chemical**

<u>Chemical name</u>	<u>CAS number</u>
Potassium hydroxide	1310-58-3
Potassium iodate	7758-05-6
Potassium iodide	7681-11-0

##### **SARA 313 (TRI reporting)**

Not regulated

##### **TSCA Section 8(b) Chemical Inventory**

All components are on the U.S. EPA TSCA Inventory list.

##### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### Other federal regulations

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)**

Not regulated

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

##### **Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)**

Not regulated

##### **Safe Drinking Water Act (SDWA)**

Not regulated

#### US state regulations

##### **California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)**

Not regulated

##### **Massachusetts Right-to-Know Act**

Not regulated

##### **New Jersey Worker and Community Right-to-Know Act**

Not regulated

**Pennsylvania Worker and Community Right-to-Know Act**

Not regulated

**Rhode Island Right-to-Know Act**

Not regulated

**SECTION 16: Other Information****NFPA Rating**

Health hazard	2
Fire hazard	0
Reactivity	0
Specific	N/A

**Disclaimer**

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May 2015

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10/25/2023

**Revision information:**

Identification: Manufacturer information and emergency phone number

First aid: Most important symptoms and effects, both acute and delayed.

Toxicological information: Information on likely routes of exposure

*Supersedes revision dated August 2019.*