

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Revision: 10/25/2023

SECTION 1: Identification

Product identifier

Product name **Iodide Iodate Reagent**

Product number R-0699; R-0699-PL

Recommended use and

restrictions

Water analysis. To be used in accordance with manufacturer instructions or under the direct

guidance of the manufacturer.

Manufacturer 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

Emergency phone number

CHEMTREC, United States 1-800-424-9300 - 24-hour service CHEMTREC, International +1 703-741-5970 - 24-hour service

SECTION 2: Hazard(s) Identification

Physical hazards Not classified

Health hazards Skin corrosion/irritation Category 2

> Eye damage/irritation Category 2A

Specific target organ toxicity, repeated exposure Category 1 (thyroid, oral route) Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Environmental hazards

Label elements

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 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.

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.

IF EXPOSED OR CONCERNED: Get medical advice/attention if you feel unwell.

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.

Hazards not otherwise classified 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	

SDS US

Potassium iodate	lodic 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

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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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/m³ 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 No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Not applicable Upper Flammability Limit No data available Lower Flammability Limit No data available Vapor pressure

Vapor density

Relative density

Solubility

No data available

(n-octanol/water)

Viscosity

No data available
Explosive properties

Not explosive
Oxidizing properties

Not oxidizing

SECTION 10: Stability and Reactivity

Reactivity Hazardous reactions will not occur under normal conditions of use, storage, and transport. **Chemical stability** Stable under recommended handling and storage conditions (refer to section 7 of the SDS).

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materialsStrong oxidizing agents. Strong acids. Metals.Hazardous decompositionNo hazardous decomposition products known.

products

SECTION 11: Toxicological Information

Information on likely routes of exposure

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.

Symptoms related to the physical, chemical, and toxicological characteristics

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.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Acute toxicity This product is not classified as an acute toxicity hazard.

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation May cause serious eye irritation.

Respiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classified

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not classified

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

Causes damage to thyroid through prolonged or repeated exposure, oral route.

(repeated exposure)

Aspiration hazard No data available

SECTION 12: Ecological Information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data available

Other adverse effects 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

DOTIATANot regulated as dangerous goodsIMDGNot 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

Chemical name	CAS number	
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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Issue date:

May 2015

Revision date:

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.