

SAFETY DATA SHEET

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

CTION 1: Identification		Revision: 10/25/2
Product identifier		
Product identifier Product name	Iodide Iodate Reagent	
Product number	R-0808; R-0808-PL	
Recommended use and	Water analysis. To be used in accordance with manu	facturer instructions or under the direct
restrictions	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	
CTION 2: Hazard(s) Identi	fication	
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)
Environmental hazards	Not currently regulated by OSHA. For additional inform	mation, refer to section 12 of the SDS.
Hazard pictograms		
Signal word	Danger	
Hazard statements	Causes skin irritation and serious eye irritation. Cause or repeated exposure, oral route.	es damage to thyroid through prolonge
Precautionary statements		
Prevention	Do not breathe dust/fumes/gas/mists/vapors/spray. W not eat, drink, or smoke when using this product. Weat protection.	
Response	IF ON SKIN: Wash with plenty of water. IF SKIN IRRI advice/attention. Take off contaminated clothing and	
	IF IN EYES: Rinse cautiously with water for several mand easy to do. Continue rinsing. IF EYE IRRITATION advice/attention.	
	IF EXPOSED OR CONCERNED: Get medical advice	Attention if you feel unwell.
Storage	Keep tightly capped. Store out of direct sunlight betwee	een 36°F–85°F.
Disposal	Dispose of contents/container in accordance with loca regulations.	al/regional/national/international
	d 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	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 Massures			

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 Unsuitable extinguishing media	Use extinguishing media appropriate for surrounding fire. Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the Fire hazard	substance or mixture 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).

Occupational exposure limits US ACGIH Threshold Limit Valu	es		
Components		Туре	Value
Potassium iodide (CAS 7681-1	1-0), as I	TLV-TWA	0.01 mg/m ³ inhalable particulate matter
US NIOSH: Pocket Guide to Che Not regulated	emical Hazards		
US OSHA Table Z-1 Limits for A Not regulated	ir Contaminants (29 C	FR 1910.1000)	
Biological limit values			
No biological exposure limits note	d for the ingredient(s).		
Exposure controls Appropriate engineering controls	should be matched to ventilation, or other er exposure limits. If exp	conditions. If app ngineering controls osure limits have	r changes per hour) should be used. Ventilation rate licable, use process enclosures, local exhaust s to maintain airborne levels below recommended not been established, maintain airborne levels to an d emergency shower must be available when handlir
Personal protective equipment			
Eye/face protection	Wear appropriate safe	ety glasses with si	de shields (or goggles).
Skin protection	Wear appropriate che	mical-resistant glo	oves and clothing.
Body protection	Wear appropriate pro	tective clothing.	
Respiratory protection	approved respirator if	there is a risk of e	suitable respiratory equipment. Use a NIOSH/MSHA exposure to dust/fumes at levels exceeding the ht 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
рН	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
CTION 10: Stability and Read	ctivity
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 avoid	Contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials	Strong oxidizing agents. Strong acids. Metals.
Hazardous decomposition products	No hazardous decomposition products known.
CTION 11: Toxicological Info	ormation
Information on likely routes of exp	
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	d 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 sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC Monographs. Overall Eval	uation of Carcinogenicity
Not classified	
OSHA Specifically Regulated St	ubstances (29 CFR 1910.1001-1096)
Not regulated	ubstances (29 CFR 1910.1001-1090)
US National Toxicology Program	n (NTP) Report on Carcinogens
Not classified	
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	Causes damage to thyroid through prolonged or repeated exposure, oral route.
Aspiration hazard	No data available
ECTION 12: Ecological Inform	
Ecotoxicity	This product is not classified as environmentally hazardous.

Ecotoxicity

This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableOther adverse effectsLarge or frequent spills can have a harmful or damaging effect on the environment.		
Bioaccumulative potential No data available	Other adverse effects	Large or frequent spills can have a harmful or damaging effect on the environment.
	Mobility in soil	No data available
Persistence and degradability No data available	Bioaccumulative potential	No data available
	Persistence and degradability	No data available

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.

CTION 14: Transport Info	ormation
DOT	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
CTION 15: Regulatory Inf	iormation
US federal regulations	
CERCLA Hazardous Substa Not regulated	ance (40 CFR 302.4)
SARA 302 Extremely Hazar Not regulated	dous Substance (40 CFR 355 Appendices A / B)
SARA 304 Emergency Rele	ase 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) Chemica	al Inventory
•	U.S. EPA TSCA Inventory list.
	Notification (40 CFR 707, Subpt. D)
Not regulated	
Other federal regulations	
	n 112 Hazardous Air Pollutants (HAPs)
Not regulated	
Clean Air Act (CAA) Section Not regulated	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Clean Water Act, Toxic and Not regulated	Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)
Safe Drinking Water Act (S Not regulated	DWA)
US state regulations	
-	ater and Toxic Enforcement Act of 1986 (California Proposition 65)
Massachusetts Right-to-Kn	iow Act
Not regulated	
New Jersey Worker and Co	mmunity Right-to-Know Act

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 July 2019.