

SAFETY DATA SHEET

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

Revision: 05/10/2022

CTION 1: Identification		Revision: 05/10/20
Product identifier		
Product name	Nitrite Reagent	
Product number	R-4006	
Recommended use and restrictions	Water analysis. To be used in accordan guidance of the manufacturer.	nce with manufacturer instructions or under the direct
Manufacturer	Taylor Water Technologies LLC 31 Loveton Circle Sparks, MD 21152 Local: (410) 472-4340 – 8am – 5pm ES Toll-free: (800) 837-8548 – 8am – 5pm	
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	Corrosive to metals	Category 1
Health hazards	Eye damage/irritation	Category 1
	Skin corrosion/irritation	Category 1B
Environmental hazards	Not currently regulated by OSHA. For a	dditional information, refer to section 12 of the SDS.
Signal word	Danger	
Hazard statements	Causes severe skin burns and serious e	eye damage. May be corrosive to metals.
Precautionary statements		
Prevention	gloves/protective clothing/eye protection	n thoroughly after handling. Wear protective n/face protection. Keep only in original container.
Response	,	r for several minutes. Remove contact lenses if prese diately call a physician or poison control center. T induce vomiting.
		ke off all contaminated clothing. Rinse skin with wate
	a physician or poison control center.	ir and keep comfortable for breathing. Immediately ca
	Absorb spillage to prevent material dam	
Storage	Store locked up. Store in corrosive-resis tightly capped. Store out of direct sunlig	stant container with corrosive-resistant inner liner. Ker ht between 36°F–85°F.
Disposal	Dispose of contents/container in accord regulations.	lance with local/regional/national/international
Hazards not otherwise classifie	d Not applicable	
CTION 3: Composition/In	formation on Ingredients	
Mixture		
.		

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	10-30
Hydrochloric acid	Hydrogen chloride	7647-01-0	0.5-1.5

Non-hazardous component(s)	Not applicable	Not applicable	<75
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The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. SECTION 4: First-Aid Measures

If inhaled

Remove individual to fresh air. Seek medical 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 attention if irritation develops. Chemical burns must be treated by a physician.

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. Call a physician or poison control center immediately.

If swallowed

Immediately call a physician or poison control center. 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.

Most important symptoms and effects, both acute and delayed

Direct skin or eye contact may cause corrosive burns. Symptoms may include pain, redness or swelling. Scarring or permanent damage, including blindness, could result. Inhalation may cause severe respiratory irritation, such as coughing and wheezing. Inhalation could result in pulmonary edema, symptoms—chest pain, shortness of breath—may be delayed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and bleeding.

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.

Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

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	May be corrosive to metals.
Hazardous combustion products	Carbon 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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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

Ventilate the area. 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 to remove residual contamination. 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

Personal precautions, protective equipment, and emergency procedures

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

Store locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. 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	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm (3 mg/m ³)	
US NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	5 ppm (7 mg/m ³)	
Hydrochloric acid (CAS 7647-01-0) IDLH		50 ppm (75 mg/m ³)	
US OSHA Table Z-1 Limits for Air Contamina	nts (29 CFR 1910.1000)		
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	5 ppm (7 mg/m ³)	

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 chemical safety goggles if contact is likely to occur. Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur. 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, viscous
Color	Clear, blue
Odor	Odorless
Odor threshold	No data available
рН	<2
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available

Boiling point	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
Relative vapor 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
ECTION 10: Stability and Re	eactivity
Reactivity	May be corrosive to metals.
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 bases, strong oxidizing agents. Phenols.
Hazardous decomposition products	No hazardous decomposition products known.
CTION 11: Toxicological Ir	formation
Information on likely routes of e	exposure 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	Corrosive skin/eye damage may occur. 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.

Acute toxicity	This product is not classified as an acute toxicity r
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid; Group 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not listed

Reproductive toxicity	No data available
Specific target organ toxicity	No data available

(single exposure)	
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
SECTION 12: Ecological Infor	mation
Ecotoxicity	This product is not classified as environmentally hazardous.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No 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

DOT	
UN number	1789
UN Proper shipping name	Hydrochloric acid solution
Reportable Quantity	5000 lbs, Hydrochloric acid
Class (Subsidiary risk)	8
Label(s)	8
Packing group	ll
Special provisions	386, A3, B3, B15, B133, IB2, N41, T8, TP2
Packaging exceptions	154
Packaging, non-bulk	202
ΙΑΤΑ	
UN number	1789
UN Proper shipping name	Hydrochloric acid solution
Class (Subsidiary risk)	8
Packing group	ll
Special provisions	A3, A803
IMDG	
UN number	1789
UN Proper shipping name	Hydrochloric acid solution
Class (Subsidiary risk)	8
Packing group	II
Environmental hazards	
Marine pollutant	No
Special provisions	None
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.
DOT hazard pictograms	





SECTION 15: Regulatory Information

Chemical name	tance (40 CFR 302.4) CAS number	Reportable Quantity
Hydrochloric acid	7647-01-0	5000 lbs
SARA 302 Extremely Haza		
Not regulated	·	
SARA 304 Emergency Rel	ease Notification	
Not regulated		
SARA 311/312 Hazardous	Chemical	
		fications applicable for this product.
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemic	-	
-	e U.S. EPA TSCA Inventory	
TSCA Section 12(b) Expor	t Notification (40 CFR 707,	Subpt. D)
Not regulated		
Other federal regulations		
Clean Air Act (CAA) Section	on 112 Hazardous Air Pollu	utants (HAPs)
Chemical name	CAS number	
Hydrochloric acid	7647-01-0	
Clean Air Act (CAA) Section	on 112(r) Accidental Releas	se Prevention (40 CFR 68.130)
Chemical name	CAS number	
Hydrochloric acid	7647-01-0	
Safe Drinking Water Act (S	SDWA)	
Not regulated		
US state regulations		
California Safe Drinking W	ater and Toxic Enforceme	nt Act of 1986 (California Proposition 65)
Not regulated		
Massachusetts Right-to-K	now Act	
Not regulated		
New Jersey Worker and C	ommunity Right-to-Know	Act
Chemical name	CAS number	
Hydrochloric acid	7647-01-0	
Pennsylvania Worker and	Community Right-to-Know	v Act
Chemical name	CAS number	
Hydrochloric acid	7647-01-0	
Rhode Island Right-to-Kno	ow Act	
Chemical name	CAS number	
Hydrochloric acid	7647-01-0	
TION 16: Other Information	ation	

Fire hazard	0
Reactivity	1
Specific	N/A

Disclaimer

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