

# **SAFETY DATA SHEET**

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

Product identifier		
Product name	Total Chelant Titrating Solution	
Product number	R-0912	
Recommended use and restrictions	To be used in accordance with manufacturer instructions or under the direct guidance of th manufacturer.	
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548	
CTION 2: Hazard(s) Identific	cation	
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 ac	dditional information, refer to section 12 of the SD
Signal word	Danger	
Hazard statements	May be corrosive to metals. Causes sev	rere skin burns and serious eye damage.
Precautionary statements		
Prevention	Keep only in original container. Do not breathe dust or mists. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection if contac likely to occur.	
Response	Absorb spillage to prevent material damage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do I induce vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. R skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center.	
Storage	Store in corrosive-resistant container wit	th corrosive-resistant inner liner. Store locked up. ht between 36°F–85°F. Store in a well-ventilated p
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazards not otherwise classified	Not applicable	

MIXUIC			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Hydrogen chloride	Hydrochloric acid	7647-01-0	1-5
Nonhazardous and other components below reportable levels	Not applicable	Not applicable	0.1–1

**Total Chelant Titrating Solution; R-0912** 

# 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. If symptoms persist or in all cases of concern, seek medical advice.

#### 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

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

#### 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 s Fire hazard	ubstance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals.
Hazardous combustion products	Hydrogen chloride gas, nitrogen oxides. Other irritating fumes and smoke.
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 dust/fumes/gas/mists/vapors/spray. 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. Dilute acid with water and neutralize with dilute base. If not recoverable, dilute with water or flush to holding area and neutralize. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a 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 dust/fumes/gas/mists/vapors/spray. 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 in a well-ventilated place. Store in corrosive-resistant container with corrosive-resistant inner liner. Store locked up. 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	3 mg/m <sup>3</sup>			
US NIOSH: Pocket Guide to Chemical Hazard	ls				
Components	Туре	Value			
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m <sup>3</sup>			
Hydrochloric acid (CAS 7647-01-0)	IDLH	74.5 mg/m <sup>3</sup>			
US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)					
Components	Туре	Value			
Hydrochloric acid (CAS 7647-01-0)	PEL	7 mg/m <sup>3</sup>			

## **Biological limit values**

# ACGIH Biological Exposure Indices

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

#### **Exposure controls**

Exposure controis	
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 if contact is likely to occur.
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 and colorless
Odor	Strong, irritating odor
Odor threshold	7mg/m <sup>3</sup> -49 mg/m <sup>3</sup>
рН	<1
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	No data available

Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
CTION 10: Stability and Reac	tivity
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	Alkalis, amines, brass, copper, hydroxides, powdered metals, strong oxidizing agents, zinc, reducing agents.
Hazardous decomposition products	No hazardous decomposition products under normal conditions.
CTION 11: Toxicological Info	rmation
Information on table dealers of the	_
Information on toxicological effect	
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Specific target organ toxicity (single exposure)	No data available		
Specific target organ toxicity (repeated exposure)	No data available		
Aspiration hazard	No data available		
SECTION 12: Ecological Infor	ECTION 12: Ecological Information		
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	II	
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	II	
Special provisions	A3	
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

US federal regulations		
CERCLA Hazardous Substance (40	CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Hydrochloric acid	7647-01-0	5000lbs
SARA 302 Extremely Hazardous Sul	ostance (40 CFR 35	i5 Appendices A / B)
Not regulated		
SARA 304 Emergency Release Notif	ication	
Not regulated		
SARA 311/312 Hazardous Chemical		
Chemical name	CAS number	
Hydrochloric acid	7647-01-0	_
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemical Invento	orv	
All components are on the U.S. EPA		t.
TSCA Section 12(b) Export Notificat		
Not regulated	X Z	. ,
Other federal regulations		
Clean Air Act (CAA) Section 112 Haz	zardous Air Polluta	nts (HAPs)
Chemical name		
Hydrochloric acid	7647-01-0	_
Clean Air Act (CAA) Section 112(r) A	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)
This product does not contain any c	hemicals known to S	State of California to cause cancer, birth defects, or any other
reproductive harm.		
Massachusetts Right-to-Know Act		
Chemical name	CAS number	_
Hydrochloric acid	7647-01-0	
New Jersey Worker and Community	-	t
Chemical name	CAS number	—
Hydrochloric acid	7647-01-0	
Pennsylvania Worker and Communi		Act
Chemical name	CAS number	_
Hydrochloric acid	7647-01-0	
Rhode Island Right-to-Know Act	CAS number	
Chemical name	CAS number	_
Hydrochloric acid	7647-01-0	

# SECTION 16: Other Information NFPA Rating Health hazard 2 Fire hazard 0 Reactivity 1 Specific N/A

## Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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# Issue date:

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#### Last revisions March 2020

Total Chelant Titrating Solution; R-0912