

# SAFETY DATA SHEET

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

Product identifier	
Product name	Iron Total 3 - Reagent C
Product number	R-8044C
Recommended use and restrictions	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548
CTION 2: Hazard(s) identified	cation
Physical hazards	Not applicable
Health hazards	Not applicable
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.
Label elements Hazard pictograms	Not applicable
Signal word	Not applicable
Hazard statements	Not applicable
Precautionary statements	
Prevention	Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with water. If ingested, contact physician or local poison control center. Treat symptoms as needed
Response	This reagent is not defined as a hazardous chemical per OSHA's Hazard Communication Standard 2012; however, use care when handling.
Storage	Keep tightly capped. Store out of direct sunlight between 36°F–85°F.
Disposal	Not applicable
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	99–100
Other components below reportable levels	Not applicable	Not applicable	0.1–1

### 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

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.

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SECTION 5: Firefighting meas	ures
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	Carbon oxides, 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

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 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 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**

Not regulated

#### **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

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.
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

internation on bable physical a	
Physical state	Liquid
Form	Liquid
Color	Clear, colorless or nearly colorless
Odor	Odorless
Odor threshold	Not applicable
рН	6.4
Evaporation rate	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	212°F (100°C)
Flash point	Not applicable
Specific gravity	No data available
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Upper Flammability Limit	Not applicable
Lower Flammability Limit	Not applicable
Vapor pressure	17 mm Hg
Relative vapor density	0.6
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Percent volatile	99%

# SECTION 10: Stability and reactivity

Reactivity	Hazardous reactions will not occur under normal conditions.
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	Oxidizing agents

Information on toxicological effect	S		
Inhalation	May cause irritation to the	respiratory system	
Skin contact	May cause slight or mild transient irritation		
Eye contact	May cause slight or mild transient irritation May cause irritation, nausea, vomiting, and diarrhea		
Ingestion			
Most important symptoms/effects, acute and	Direct skin contact may cause slight or mild transient irritation. Symptoms may include redne and itching.		
delayed	Direct eye contact may cause slight or mild transient irritation. Symptoms may include stingir tearing, redness, swelling, and blurred vision.		
	Inhalation of mists can cause breathing difficulties.	se respiratory irritation. Symptoms may include coughing and	
	Ingestion may cause gastro	intestinal irritation, nausea, vomiting, and diarrhea.	
Acute toxicity	This product is not classifie	ed as an acute toxicity hazard.	
Product	Species	Acute Toxicity Estimate (ATE)	
Iron Total 3 - Reagent C (CAS Mixt			
Acute	,		
Dermal			
LD <sub>50</sub> Inhalation	Rat	No data available	
	Rat	No data available	
Oral	Nat		
	Rat	No data available	
Skin corrosion/irritation	May cause slight or mild tra		
Serious eye damage/eye irritation			
Respiratory sensitization	No data available		
Skin sensitization	No data available		
Germ cell mutagenicity	No data available		
Carcinogenicity			
IARC Monographs. Overall Eval Not classifiable	uation of Carcinogenicity		
OSHA Specifically Regulated St	ubstances (20 CEP 1010 10	101-1096)	
Not regulated	105tances (29 Cr 11 1910.10	01-1090)	
-			
US National Toxicology Program	n (NTP) Report on Carcino	gens	
Not regulated	No data available		
Reproductive toxicity	No data available		
Specific target organ toxicity (single exposure)	No data available		
Specific target organ toxicity (repeated exposure)	No data available		
Aspiration hazard	No data available		
CTION 12: Ecological inform	ation		
Ecotoxicity	This product is not classifie	d as environmentally hazardous.	
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
	Nie dete euskiele		
Mobility in soil	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	Not regulated as dangerous goods
ATA	Not regulated as dangerous goods
MDG	Not regulated as dangerous goods
CTION 15: Regulatory in	formation
US federal regulations CERCLA Hazardous Subst	cance (40 CEP 302 4)
Not regulated	ance (40 CFR 302.4)
-	tion Standard (29 CFR 1910.1200)
Not regulated	
	red Substances (29 CFR 1910.1001-1096)
Not regulated	
-	rdous Substance (40 CFR 355 Appendices A / B)
Not regulated	
SARA 304 Emergency Rele	ease Notification
Not regulated	
SARA 311/312 Hazardous	Chemical
Not regulated	
SARA 313 (TRI reporting)	
Not regulated	
TSCA Section 8(b) Chemic	al Inventory
	e U.S. EPA TSCA Inventory list.
	t Notification (40 CFR 707, Subpt. D)
Not regulated	
Other federal regulations	n 440 Hannahara Ala Dallutanta (HADa)
Not regulated	on 112 Hazardous Air Pollutants (HAPs)
	on 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated	IT TIZ(I) Accidental Release Flevention (40 CFR 00.150)
Safe Drinking Water Act (S	
Not regulated	
US state regulations	
-	ater and Toxic Enforcement Act of 1986 (California Proposition 65)
Not regulated	
Massachusetts Right-to-Ki	now Act
Not regulated	
New Jersey Worker and Co	ommunity Right-to-Know Act
Not regulated	
Pennsylvania Worker and	Community Right-to-Know Act
Not regulated	
Rhode Island Right-to-Kno	w Act
Not regulated	

SECTION 16: Other inform	nation	
NFPA Rating		
Health hazard	0	
Fire hazard	0	
Reactivity	0	
Specific	N/A	

#### Disclaimer

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