

# **SAFETY DATA SHEET**

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

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Revision: 07/29/2021

CTION 1: Identification			
Product identifier			
Product name	Boron 2 – Reagent A		
Product number	R-8018A		
Recommended use and restrictions	Water analysis. 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 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) Ident	ification		
Physical hazards	Not applicable		
Health hazards	Eye damage/irritation Category 2A		
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.		
Label elements Hazard pictograms			
Signal word	Warning		
Hazard statements	Causes serious eye irritation.		
Precautionary statements			
Prevention	Wash skin thoroughly after handling. Wear eye protection/face protection if contact is likely t occur.		
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if pres- and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical advice/attention.		
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	45-70
Ammonium acetate	Acetic acid ammonium salt	631-61-8	30-40
Acetic acid	Glacial acetic acid	64-19-7	1-5
Ammonium sulfate	Diammonium sulfate	7783-20-2	1-5
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid tetrasodium salt hydrate	10378-23-1	1-5

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 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 eve 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.

ECTION 5: Firefighting Meas	ures
Extinguishing media Suitable extinguishing media	Use extinguishing media appropriate for the 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 Fire hazard	e substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides. During fire, gases hazardous to health may be formed.
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.
ECTION 6. Accidental Release	

#### 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 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).

US ACGIH Threshold Limit	TUIUUU	Туре	Value	
Components Acetic acid (CAS 64-19-7)		<b>Type</b> STEL	<u>value</u> 37 mg/m <sup>3</sup>	
		TWA	25 mg/m <sup>3</sup>	
	<b>.</b>		25 mg/m	
US NIOSH: Pocket Guide to	o Chemical Hazards	_		
Components		Туре	Value	
Acetic acid (CAS 64-19-7)		STEL	37 mg/m <sup>3</sup>	
		TWA	25 mg/m <sup>3</sup>	
US OSHA Table Z-1 Limits	for Air Contaminants (29 (	CFR 1910.1000)		
Components		Туре	Value	
Acetic acid (CAS 64-19-7)	)	TWA	25 mg/m <sup>3</sup>	
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Odor threshold	No data available
рН	5.5
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	212°F (100°C)
Flash point	Not applicable
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

Relative density	No data available	
Solubility	Miscible	
Partition coefficient (n-octanol/water)	No data available	
Viscosity	No data available	
Explosive properties	Not explosive	
Oxidizing properties	Not oxidizing	
CTION 10: Stability and R		
Reactivity		ir 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	-	als. Do not use in areas without adequate ventilation.
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	Ammonia.	
CTION 11: Toxicological	Information	
Information on likely routes of		
Inhalation	No adverse effects due to inhalati	on are expected.
Skin contact	Direct contact with skin may cause	e temporary irritation.
Eye contact	Direct contact with eyes may cause serious irritation. Avoid close eye contact; Use cautior avoid splashes. Wear eye protection.	
Ingestion	Expected to be a low ingestion ha	izard.
	Causes serious eye irritation. Refer to section 4 of the SDS for most important symptoms an effects.	
Symptoms related to the physical, chemical, and toxicological characteristics		er to section 4 of the SDS for most important symptoms a
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Not regulated		,
-	ram (NTP) Report on Carcinogens	
Not listed	· ···· (· · · · ) · · · · · · · · · · ·	
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	
ECTION 12: Ecological Info	rmation	
Ecotoxicity	This product is not classified as er	vironmentally 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	a harmful or damaging effect on the environment.
ECTION 13: Disposal Cons	derations	
residue, follow label warnings eve		ste disposal site. Since emptied containers may retain produc erial and its container must be disposed of in a safe manner l/international regulations.
ECTION 14: Transport Infor	mation	
DOT	Not regulated as dangerous goods	3
ΙΑΤΑ	Not regulated as dangerous goods	3
IMDG	Not regulated as dangerous goods	3
ECTION 15: Regulatory Info	ormation	
US federal regulations		
CERCLA Hazardous Substan		
Chemical name	CAS number	Reportable Quantity
Acetic acid	64-19-7	5000 lbs
Ammonium acetate	631-61-8	5000 lbs
SARA 302 Extremely Hazardo Not regulated	ous Substance (40 CFR 355 Apper	dices A / B)
SARA 304 Emergency Releas Not regulated	e Notification	
SARA 311/312 Hazardous Ch	emical	
Chemical name	CAS number	
Acetic acid	64-19-7	
Ammonium sulfate	7783-20-2	
EDTA tetrasodium salt	10378-23-1	
SARA 313 (TRI reporting) Not regulated		
TSCA Section 8(b) Chemical All components are on the	Inventory J.S. EPA TSCA Inventory list.	
·	otification (40 CFR 707, Subpt. D)	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) Not regulated

Clean Air Act (CAA) Section 112® 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 chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### Massachusetts Right-to-Know Act

Chemical name	CAS number
Acetic acid	64-19-7
Ammonium acetate	631-61-8
Ammonium sulfate	7783-20-2
New Jersey Worker and Co	ommunity Right-to-Know Act
Chemical name	CAS number
Acetic acid	64-19-7
Ammonium acetate	631-61-8
Pennsylvania Worker and (	Community Right-to-Know Act
Chemical name	CAS number
Acetic acid	64-19-7
Ammonium acetate	631-61-8
Ammonium sulfate	7783-20-2
Rhode Island Right-to-Kno	w Act
Chemical name	CAS number
Acetic acid	64-19-7
SECTION 16: Other Information	ation
NFPA Rating	
Health hazard	2
Fire hazard	0
Reactivity	0
Specific	N/A

#### Disclaimer

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Issue date:

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#### **Revision date:**

07/29/2021

#### **Revision information:**

This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.