

SAFETY DATA SHEET

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

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. This reagent is not defined as a hazardous chemical per OSHA's Hazard Communication

Dispose of contents/container in accordance with local/regional/national/international

Revision: 11/11/2021

SECTION 1: Identification	
Product identifier Product name	DPD Reagent #1
Product number	R-0001; R-0001-PL
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
SECTION 2: Hazard(s) Identif	fication
Physical hazards	Not classified
Health hazards	Not classified
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	The mixture does not meet the criteria for classification.
Precautionary statements	
-	A THE STATE AND A THE ADDRESS

Hazards not otherwise classified Not applicable SECTION 3: Composition/Information on Ingredients

regulations.

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Non-hazardous components	Not applicable	Not applicable	7-13

Standard 2012; however, use care when handling.

Keep tightly capped. Store out of direct sunlight between 36°F-85°F.

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

Prevention

Response

Storage

Disposal

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	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	Phosphorous oxides, potassium oxides, sodium oxides. During fire, gases hazardous to health may be formed.
Advice for firefighters	Eventing and the Californian should be been deep for a still be an even
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

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

No exposure limits noted for the ingredient(s).

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.
Personal protective equipment	
Eye/face protection	Wear appropriate safety glasses with side shields (or 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 stateLiquidFormLiquidColorClear, colorless or nearly colorlessOdorOdorlessOdor thresholdNo data availablepH10Evaporation rateNo data availableMelting pointNo data availableFreezing pointNo data availableInitial boiling point (boiling range)No data availableFlash pointNo data availableSpecific gravityNo data availableAuto-ignition temperatureNo data availablePlammability (solid, gas)Not applicableUpper Flammability LimitNo data availableVapor densityNo data availableVapor densityNo data availableSolubilitySoluble in all proportionsPartition coefficient (n-octanol/water)No data availableViscosityNo data availableExplosive propertiesNot explosiveOxidizing propertiesNot oxidizing	-	
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ViscosityNo data availableExplosive propertiesNot explosive		No data available
Explosive properties Not explosive	(n-octanol/water)	
	Viscosity	No data available
Oxidizing properties Not oxidizing	Explosive properties	Not explosive
	Oxidizing properties	Not oxidizing

SECTION 10: Stability and Reactivity

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.
Incompatible materials	Strong acids, strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: Toxicological Information

Information on likely routes of exp Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical, and toxicological characteristics	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.
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC Monographs. Overall Eval Not listed	uation of Carcinogenicity
OSHA Specifically Regulated So Not regulated	ubstances (29 CFR 1910.1001-1096)
US National Toxicology Prograr Not listed	n (NTP) Report on Carcinogens
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
SECTION 12: Ecological Inform	ation
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 Conside	rations
residue, follow label warnings even a	ealed containers at a licensed waste disposal site. Since emptied containers may retain product fter container is emptied. This material and its container must be disposed of in a safe manner. ordance with local/regional/national/international regulations.
SECTION 14: Transport Informa	ation
DOT	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
SECTION 15: Regulatory Inform	nation
US federal regulations CERCLA Hazardous Substance Not regulated	
Not regulated	· · · · · ·

SARA 304 Emergency	y Release Notification	
Not regulated		
SARA 311/312 Hazaro	tous Chemical	
Not regulated		
SARA 313 (TRI report	ting)	
Not regulated		
TSCA Section 8(b) Ch	nemical Inventory	
All components are	on the U.S. EPA TSCA Inve	ntory list.
TSCA Section 12(b) E	Export Notification (40 CFR	707, Subpt. D)
Not regulated		
Other federal regulation	S	
	Section 112 Hazardous Air	Pollutants (HAPs)
Not regulated		
	Section 112(r) Accidental R	elease Prevention (40 CFR 68.130)
Not regulated		
Clean Water Act, Tox	ic 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 Drinki	ng Water and Toxic Enford	cement Act of 1986 (California Proposition 65)
Not regulated		
Massachusetts Right	-to-Know Act	
Not regulated		
New Jersey Worker a	nd Community Right-to-Kr	now Act
Not regulated		
Pennsylvania Worker	and Community Right-to-	Know Act
Not regulated		
Rhode Island Right-to	o-Know Act	
Not regulated		
SECTION 16: Other Info	ormation	
NFPA Rating Health hazard	0	
Fire hazard	0	
Reactivity	0	
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:

May 2015

Revision date:

11/11/2021

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.

Hazard identification: label

Supersedes revision dated 05/14/2021.



SAFETY DATA SHEET

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

Revision: 11/11/2021

SECTION 1: Identification

Product name	DPD Reagent #2	
Product number	R-0002; R-0002-PL	
Recommended use and restrictions	Water analysis. To be used in accordance with manufacturer instructions or under the dire 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) Identific	cation	
Physical hazards	Corrosive to metals	Category 1
Health hazards	Eye damage/irritation	Category 1
	Skin corrosion/irritation	Category 1C
Environmental hazards	Not currently regulated by OSHA. For additional info	ormation, refer to section 12 of the SDS.
Signal word	Danger	
Hazard statements	Causes severe skin burns and serious eye damage.	. May be corrosive to metals.
Hazard statements Precautionary statements	Causes severe skin burns and serious eye damage	
Hazard statements	0	after handling. Wear protective
Hazard statements Precautionary statements	Causes severe skin burns and serious eye damage. Do not breathe mist or vapor. Wash skin thoroughly gloves/protective clothing/eye protection/face protect in original container. IF IN EYES: Rinse cautiously with water for several and easy to do. Continue rinsing. Immediately call a	after handling. Wear protective tion if contact is likely to occur. Keep only minutes. Remove contact lenses if prese physician or poison control center.
Hazard statements Precautionary statements Prevention	Causes severe skin burns and serious eye damage. Do not breathe mist or vapor. Wash skin thoroughly gloves/protective clothing/eye protection/face protect in original container. IF IN EYES: Rinse cautiously with water for several and easy to do. Continue rinsing. Immediately call a IF SWALLOWED: Rinse mouth. Do NOT induce vor	after handling. Wear protective tion if contact is likely to occur. Keep only minutes. Remove contact lenses if prese physician or poison control center. miting.
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Hazard statements Precautionary statements Prevention	Causes severe skin burns and serious eye damage. Do not breathe mist or vapor. Wash skin thoroughly gloves/protective clothing/eye protection/face protect in original container. IF IN EYES: Rinse cautiously with water for several and easy to do. Continue rinsing. Immediately call a IF SWALLOWED: Rinse mouth. Do NOT induce vor IF ON SKIN (OR HAIR): Immediately take off all cor Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep a physician or poison control center.	after handling. Wear protective tion if contact is likely to occur. Keep only minutes. Remove contact lenses if prese physician or poison control center. miting. htaminated clothing. Rinse skin with water
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Hazard statements Precautionary statements Prevention	Causes severe skin burns and serious eye damage. Do not breathe mist or vapor. Wash skin thoroughly gloves/protective clothing/eye protection/face protect in original container. IF IN EYES: Rinse cautiously with water for several and easy to do. Continue rinsing. Immediately call a IF SWALLOWED: Rinse mouth. Do NOT induce vor IF ON SKIN (OR HAIR): Immediately take off all cor Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep a physician or poison control center.	after handling. Wear protective toon if contact is likely to occur. Keep only minutes. Remove contact lenses if prese physician or poison control center. miting. ntaminated clothing. Rinse skin with wate comfortable for breathing. Immediately ca
Hazard statements Precautionary statements Prevention Response	Causes severe skin burns and serious eye damage. Do not breathe mist or vapor. Wash skin thoroughly gloves/protective clothing/eye protection/face protect in original container. IF IN EYES: Rinse cautiously with water for several and easy to do. Continue rinsing. Immediately call a IF SWALLOWED: Rinse mouth. Do NOT induce vor IF ON SKIN (OR HAIR): Immediately take off all cor Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep a physician or poison control center. Absorb spillage to prevent material damage. Store locked up. Store in corrosive-resistant contain	after handling. Wear protective tion if contact is likely to occur. Keep only minutes. Remove contact lenses if prese physician or poison control center. miting. ntaminated clothing. Rinse skin with wate comfortable for breathing. Immediately ca er with corrosive-resistant inner liner. Ker 36°F–85°F.
Hazard statements Precautionary statements Prevention Response Storage	Causes severe skin burns and serious eye damage. Do not breathe mist or vapor. Wash skin thoroughly gloves/protective clothing/eye protection/face protect in original container. IF IN EYES: Rinse cautiously with water for several and easy to do. Continue rinsing. Immediately call a IF SWALLOWED: Rinse mouth. Do NOT induce vor IF ON SKIN (OR HAIR): Immediately take off all cor Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep a physician or poison control center. Absorb spillage to prevent material damage. Store locked up. Store in corrosive-resistant contain tightly capped. Store out of direct sunlight between 3 Dispose of contents/container in accordance with lo	after handling. Wear protective tion if contact is likely to occur. Keep onl minutes. Remove contact lenses if prese physician or poison control center. miting. ntaminated clothing. Rinse skin with wate comfortable for breathing. Immediately ca er with corrosive-resistant inner liner. Ke 36°F–85°F.

SECTION 3: Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Confidential	Not applicable	Not applicable	5–10
T I 100 I I I I I I			

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

Е	xtinguishing 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.
S	pecific hazards arising from the s Fire hazard	substance or mixture Not flammable
	Explosion hazard	Not explosive
	Reactivity	May be corrosive to metals.
	Hazardous combustion products	Carbon oxides, nitrogen oxides, phosphorous oxides, sulfur oxides. During fire, gases hazardous to health may be formed.
Α	dvice 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 handle until all safety precautions have been read and understood. Do not breathe mists 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

No exposure limits noted for the ingredient(s).

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 safety glasses with side shields (or 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
Color	Clear, colorless to faint pink
Odor	Odorless
Odor threshold	No data available
рН	1
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 all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
Percent volatile	No data available

SECTION 10: Stability and Reactivity

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 bases, strong oxidizing agents. Metals. Metal nitrates.
Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: Toxicological Information

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	Corrosive skin/eye damage may occur. 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	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 Eval	uation of Carcinogenicity		
Not classified			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)			
Not regulated			
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)	No data available		
Aspiration hazard	No data available		

SECTION 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	UN3265	
UN Proper shipping name	Corrosive liquid, acidic, organic, N.O.S (Phosphorous-based organic acid)	
Reportable Quantity	None	
Class (Subsidiary risk)	8	
Label(s)	8	
Packing group	III	
Special provisions	386, IB3, T7, TP1, TP28	
Packaging exceptions	154	
Packaging, non-bulk	203	
ΙΑΤΑ		
UN number	UN3265	
UN Proper shipping name	Corrosive liquid, acidic, organic, N.O.S (Phosphorous-based organic acid)	
Class (Subsidiary risk)	8	
Packing group	III	
Special provisions	A3, A803	
IMDG		
UN number	UN3265	
UN Proper shipping name	Corrosive liquid, acidic, organic, N.O.S (Phosphorous-based organic acid)	
Class (Subsidiary risk)	8	
Packing group	III	
Environmental hazards		
Marine pollutant	No	
Special provisions	223, 274	
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

IATA; IMDG hazard pictograms



SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Refer to section 2 of the SDS for GHS Hazard Classifications applicable for this product.

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

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)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Not regulated

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	3
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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Issue date: May 2015

Revision date: 11/11/2021

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.

Hazard information: Supplemental information, format

Supersedes revision dated 05/20/2021.



SAFETY DATA SHEET

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

S

Revision: 05/14/2021

Product identifier			
Product name	DPD Reagent #3		
Product number	R-0003; R-0003-PL		
Recommended use and restrictions	Water analysis. To be used in accordance with manufacturer instructions or under the dire 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) Identified	cation		
Physical hazards	Not applicable		
Health hazards	Specific target organ toxicity, repeated exposure, oral Category 1 (thyroid)		
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SD		
Hazard pictograms			
Signal word	Danger		
Hazard statements	Causes damage to thyroid through prolonged or repeated exposure, oral route.		
Precautionary statements			
Prevention	Do not breathe dust/fumes/gas/mists/vapors/spray. Wash skin thoroughly after handling. not eat, drink, or smoke when using this product.		
Response	IF EXPOSED OR CONCERNED: Get medical advice/attention if you feel unwell.		
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		
CTION 3: Composition/Info	rmation on Ingredients		
Mixture			
	Common name and synonyms CAS number % w/w		

Water	Dihydrogen Oxide	7732-18-5	60-80
Potassium Iodide	Hydriodic Acid, Potassium Salt	7681-11-0	15-40
The aposition shaming identity and/or available properties of composition has been withhold as a trade aport			

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 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	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	substance or mixture Not flammable		
Explosion hazard	Not explosive		
Reactivity	Hazardous reactions will not occur under normal conditions.		
Hazardous combustion products	Carbon oxides, hydrogen iodide, iodide fumes, iodine oxides, potassium oxide. 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.		

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

Personal precautions, protective equipment, and emergency procedures

Do not breathe dust or mist. 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).

Components		Туре	Value
Potassium Iodide (CAS 7681-1	1-0)		0.01 ppm
US NIOSH: Pocket Guide to Che Not regulated	-		
US OSHA Table Z-1 Limits for A Not regulated	ir Contaminants (29	CFR 1910.1000)	
Biological limit values			
No biological exposure limits note	d 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.		
Personal protective equipment			
Eye/face protection	Wear appropriate safety glasses with side shields (or 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	approved respirator	if there is a risk of	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
pН	10
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	No data available
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not explosive

	Oxidizing properties	Not oxidizing
SE	ECTION 10: Stability and Read	tivity
	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 acids. Strong oxidizing agents. Fluorine perchlorate, mercurous chloride, metals.
	Hazardous decomposition products	No hazardous decomposition products known.
SE	ECTION 11: Toxicological Info	rmation
	Information on likely routes of exp	osure
	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	No data available
	Serious eye damage/eye irritation	No data available
	Respiratory sensitization	No data available
	Skin sensitization	No data available
	Germ cell mutagenicity	No data available
	Carcinogenicity	
	IARC Monographs. Overall Eval Not classified	uation of Carcinogenicity
	OSHA Specifically Regulated Sι Not regulated	ubstances (29 CFR 1910.1001-1096)
	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
SE	ECTION 12: Ecological Inform	ation
	Ecotoxicity	This product is not classified as environmentally hazardous.
	Persistence and degradability	No data available
	Bioaccumulative potential	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.

Large or frequent spills can have a harmful or damaging effect on the environment.

No data available

Mobility in soil

Other adverse effects

CTION 14: Transport Inf	ormation	
DOT	Not regulated as dangerous goods	
ΙΑΤΑ	Not regulated as dangerous goods	
IMDG	Not regulated as dangerous goods	
CTION 15: Regulatory Ir	nformation	
US federal regulations CERCLA Hazardous Subs Not regulated	tance (40 CFR 302.4)	
SARA 302 Extremely Haza Not regulated	ardous Substance (40 CFR 355 Appendices A / B)	
SARA 304 Emergency Rel Not regulated	ease Notification	
SARA 311/312 Hazardous	Chemical	
Chemical name	CAS number	
Potassium Iodide SARA 313 (TRI reporting) Not regulated	7681-11-0	
•	cal Inventory le U.S. EPA TSCA Inventory list. rt Notification (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		
Safe Drinking Water Act (S	SDWA)	
US state regulations		
California Safe Drinking W Not regulated	Vater and Toxic Enforcement Act of 1986 (California Proposition 65)	
Massachusetts Right-to-Know Act Not regulated		
New Jersey Worker and Community Right-to-Know Act Not regulated		
Pennsylvania Worker and Community Right-to-Know Act Not regulated		
Rhode Island Right-to-Kno	ow Act	
Not regulated		
CTION 16: Other Inform	ation	
NFPA Rating Health hazard	2	
Tieaitii Tiazalu		

Reactivity	0
Specific	N/A

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Issue date:

May 2015

Revision date:

05/14/2021

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.



SAFETY DATA SHEET

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

Revision: 03/11/2022

	Revision. 03/11/2022
SECTION 1: Identification	
Product identifier	
Product name	pH Indicator Solution (Phenol Red)
Product number	R-0004
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
SECTION 2: Hazard(s) Identi	ification
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	Dispose of contents/container in accordance with local/regional/national/international

SECTION 3: Composition/Information on Ingredients

regulations.

Not applicable

Mixture

MIXTUIC			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Non-hazardous and other components below reportable levels	Not applicable	Not applicable	1-5

SECTION 4: First-Aid Measures

Hazards not otherwise classified

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	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, 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.

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

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 safety glasses with side shields (or 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

	normation on basic physical and	chemical properties
	Physical state	Liquid
	Form	Liquid
	Color	Clear, red
	Odor	Slight phenolic
	Odor threshold	No data available
	рН	No data available
	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
	Relative density	No data available
	Solubility	Soluble in all proportions
	Partition coefficient (n-octanol/water)	No data available
	Viscosity	No data available
	Explosive properties	Not explosive
	Oxidizing properties	Not oxidizing
C	TION 10: Stability and Read	tivity

SECTION 10: Stability and Reactivity

Reactivity Chemical stability

Hazardous reactions will not occur under normal conditions of use, storage, and transport. 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	Acids, bases, iodides, lead, mercury salts, metals, oxidizing agents, silver salts, sodium nitrat
Hazardous decomposition products	No hazardous decomposition products known.
CTION 11: Toxicological Info	ormation
Information on likely routes of exp Inhalation	osure No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical, and toxicological characteristics	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	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC Monographs. Overall Eval Not listed	uation of Carcinogenicity
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096) Not regulated	
US National Toxicology Program Not listed	n (NTP) Report on Carcinogens
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 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: Transp	ECTION 14: Transport Information		
DOT	Not regulated as dangerous goods		
ΙΑΤΑ	Not regulated as dangerous goods		
IMDG	Not regulated as dangerous goods		

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Not regulated

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) 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)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Not regulated

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	0
Fire hazard	0
Reactivity	0
Specific	N/A

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the expressed knowledge and permission of Taylor Technologies, Inc. The information contained in this sheet is based on lab experience and the most current data available.

Issue date: May 2015

Revision date: 03/11/2022

Revision information:

Identification: remove obsolete product number.



OFOTION 4

SAFETY DATA SHEET

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

7664-93-9

Revision: 03/11/2022

SECTION 1: Identification			
Product identifier			
Product name	Acid Demand Reagent		
Product number	R-0005		
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 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		
SECTION 2: Hazard(s) Identified	cation		
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Eye damage/irritation	Category 1	
	Skin corrosion/irritation	Category 10	C
Environmental hazards	Not currently regulated by OSHA. For a	additional information, refer to se	ection 12 of the SDS.
Signal word	Danger		
Hazard statements	May be corrosive to metals. Causes se	evere skin burns and serious eye	e damage.
Precautionary statements			
Prevention	Do not breathe dust or mists. Wash ski gloves/protective clothing/eye protectio		
Response	IF IN EYES: Rinse cautiously with wate present and easy to do. Continue rinsir center. IF SWALLOWED: Rinse mouth Immediately take off all contaminated of clothing before reuse. IF INHALED: Re breathing. Immediately call a physician material damage.	ng. Immediately call a physician . Do NOT induce vomiting. IF O clothing. Rinse skin with water. V emove person to fresh air and ke	or poison control N SKIN (OR HAIR): Vash contaminated ep comfortable for
Storage	Store locked up. Store in corrosive-rest tightly capped. Store out of direct sunlig		esistant inner liner. Keep
Disposal	Dispose of contents/container in accord regulations.	dance with local/regional/nationa	al/international
Hazards not otherwise classified	Not applicable		
	rmation on Ingredients		
Mixture Chamical name	Common nome or 1		0/
Chemical name	Common name and synonyms	CAS number	<u>% w/w</u>
Water	Dihydrogen oxide	7732-18-5	80-100

Sulphuric Acid; Dihydrogen Sulfate

Sulfuric Acid

0.1-1

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.

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

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	g 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 Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals.
Hazardous combustion products	Sulfur 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 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 a spill large accidental release, notify relevant authorities in accordance with all applicable regulations.

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 locked up. 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
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m ³ (thoracic particulate)
US NIOSH: Pocket Guide to Chemical Haza	rds	
Components	Туре	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m ³
Sulfuric Acid (CAS 7664-93-9)	IDLH	15 mg/m ³
US OSHA Table Z-1 Limits for Air Contamir	nants (29 CFR 1910.1000)	
Components	Туре	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	1 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 safety glasses with side shields (or goggles) if contact is likely to occur. Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur. Wear appropriate protective clothing if contact is likely to occur. Body protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA Respiratory protection 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, colorless, or nearly colorless
Odor	Odorless
Odor threshold	No data available
рН	1.3
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
	Relative density	No data available
	Solubility	Soluble in all proportions
	Partition coefficient (n-octanol/water)	No data available
	Viscosity	No data available
	Explosive properties	Not explosive
	Oxidizing properties	Not oxidizing
SECT	FION 10: Stability and Read	tivity
R	eactivity	May be corrosive to metals.

,	
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	Bases, strong oxidizing agents, strong reducing agents, metals, organic material.
Hazardous decomposition products	No hazardous decomposition products known.
CTION 11: Toxicological Info	ormation
Information on likely routes of exp	osure
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	Corrosive skin/eye damage may occur. 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	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	

IARC Monographs. Overall Evaluation of Carcinogenicity Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not regulated

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
SECTION 12: Ecological Inform	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	3264
UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Solution)
Reportable Quantity	1000 lbs (Sulphuric Acid)
Class (Subsidiary risk)	8
Label(s)	8
Packing group	III
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging, non-bulk	203
ΙΑΤΑ	
UN number	3264
UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Solution)
Class (Subsidiary risk)	8
Packing group	III
Special provisions	A3, A803
IMDG	
UN number	3264
UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Solution)
Class (Subsidiary risk)	8
Packing group	111
Environmental hazards	
Marine pollutant	No
Special provisions	223, 274
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

CEDCI A Hazardania Culture		
CERCLA mazardous Subst	ance (40 CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Sulfuric Acid	7664-93-9	1000 lbs
SARA 302 Extremely Hazar	dous Substance (40 CFR	355 Appendices A / B)
Chemical name	CAS number	
Sulfuric Acid	7664-93-9	
SARA 304 Emergency Rele	ase Notification	
Chemical name	CAS number	
Sulfuric Acid	7664-93-9	
SARA 311/312 Hazardous (Chemical	
Chemical name	CAS number	
Sulfuric Acid	7664-93-9	
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemica	al Inventory	
	U.S. EPA TSCA Inventory	list.
TSCA Section 12(b) Export	Notification (40 CFR 707,	Subpt. D)
Not regulated		
ther federal regulations		
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollu	itants (HAPs)
Not regulated		
Ū.		
	n 112(r) Accidental Releas	se Prevention (40 CFR 68.130)
Not regulated		
	I Priority Pollutants (40 CI	FR 401.15 and CFR 423, Appendix
Not regulated		
i tot i ogulatou		
Safe Drinking Water Act (S	DWA)	
Ū.	DWA)	
Safe Drinking Water Act (S Not regulated	DWA)	
Safe Drinking Water Act (S Not regulated S state regulations		nt Act of 1986 (California Proposit
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Safe Drinking Water Act (S Not regulated S state regulations California Safe Drinking Wa Not regulated Massachusetts Right-to-Kr <u>Chemical name</u> Sulfuric Acid New Jersey Worker and Co <u>Chemical name</u> Sulfuric Acid Pennsylvania Worker and Co	ater and Toxic Enforceme now Act <u>CAS number</u> 7664-93-9 ommunity Right-to-Know A <u>CAS number</u> 7664-93-9 Community Right-to-Know	Act
Safe Drinking Water Act (S Not regulated S state regulations California Safe Drinking Wa Not regulated Massachusetts Right-to-Kr <u>Chemical name</u> Sulfuric Acid New Jersey Worker and Co <u>Chemical name</u> Sulfuric Acid Pennsylvania Worker and Co <u>Chemical name</u>	ater and Toxic Enforceme now Act <u>CAS number</u> 7664-93-9 mmunity Right-to-Know <u>CAS number</u> 7664-93-9 Community Right-to-Know <u>CAS number</u>	Act
Safe Drinking Water Act (S Not regulated S state regulations California Safe Drinking Wa Not regulated Massachusetts Right-to-Kr <u>Chemical name</u> Sulfuric Acid New Jersey Worker and Co <u>Chemical name</u> Sulfuric Acid Pennsylvania Worker and Co <u>Chemical name</u> Sulfuric Acid	ater and Toxic Enforceme now Act <u>CAS number</u> 7664-93-9 pmmunity Right-to-Know A <u>CAS number</u> 7664-93-9 Community Right-to-Know <u>CAS number</u> 7664-93-9	Act
Safe Drinking Water Act (S Not regulated S state regulations California Safe Drinking Wa Not regulated Massachusetts Right-to-Kr <u>Chemical name</u> Sulfuric Acid New Jersey Worker and Co <u>Chemical name</u> Sulfuric Acid Pennsylvania Worker and Co <u>Chemical name</u>	ater and Toxic Enforceme now Act <u>CAS number</u> 7664-93-9 pmmunity Right-to-Know A <u>CAS number</u> 7664-93-9 Community Right-to-Know <u>CAS number</u> 7664-93-9	Act

SECTION 16: Other Information

NFPA Rating

Health hazard	2
Fire hazard	0
Reactivity	1
Specific	N/A

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Issue date:

May 2015

Revision date: 03/11/2022

Revision information:

Identification: remove obsolete product number.



SAFETY DATA SHEET

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

Revision: 05/27/2021

SECTION 1: Identification	
Product identifier	
Product name	Thiosulfate N/10
Product number	R-0007; R-0007-PL
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
SECTION 2: Hazard(s) Ident	ification
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	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	80-100
Non-hazardous and other components below reportable levels	Not applicable	Not applicable	1-5

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	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, sodium 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 dust or mist. 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

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 safety glasses with side shields (or 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, colorless or nearly colorless
	Odor	Odorless
	Odor threshold	No data available
	рН	9.6
	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
0	TION 10. Stability and Page	

SECTION 10: Stability and Reactivity

Reactivity		
Chemical stability		
Possibility of hazardous		
reactions		

Hazardous reactions will not occur under normal conditions of use, storage, and transport. Stable under recommended handling and storage conditions (refer to section 7 of the SDS). 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.

 Hazardous decomposition products
 No hazardous decomposition products known.

 SECTION 11: Toxicological Information
 Information on likely routes of exposure

 Inhalation
 No adverse effects due to inhalation are expected.

Innalation	No adverse effects due to innalation are expected.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical, and toxicological characteristics	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.	
Skin corrosion/irritation	No data available	
Serious eye damage/eye irritation	No data available	
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 regulated		
OSHA Specifically Regulated Su Not regulated	ubstances (29 CFR 1910.1001-1096)	
US National Toxicology Program	n (NTP) Report on Carcinogens	
Not regulated		
Reproductive toxicity	No data available	
Specific target organ toxicity (single exposure)	No data available	
Specific target organ toxicity (repeated exposure)		
(repeated exposure)	No data available	
Aspiration hazard	No data available	
	No data available	
Aspiration hazard	No data available	
Aspiration hazard	No data available ation	
Aspiration hazard	No data available ation This product is not classified as environmentally hazardous.	
Aspiration hazard CTION 12: Ecological Inform Ecotoxicity Persistence and degradability	No data available ation This product is not classified as environmentally hazardous. 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.

SECTION 14: Transport Information

DOT	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Not regulated

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) 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)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Not regulated

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	0
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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Issue date:

May 2015

Revision date:

05/27/2021

Revision information:

Identification: Emergency response

First-aid: Most important symptoms and effects, both acute and delayed

Toxicological Information: Information on likely routes of exposure



SECTION 1: Identification

SAFETY DATA SHEET

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

Revision: 05/27/2021

Product identifier	
Product name	Total Alkalinity Indicator
Product number	R-0008; R-0008-PL
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	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
 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	80-100
Non-hazardous and 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

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	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, hydrogen bromide, 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.

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

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 safety glasses with side shields (or 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	Dark green
Odor	Odorless
Odor threshold	No data available
рН	8.5
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
TION 40. Stability and Deer	

SECTION 10: Stability and Reactivity

Reactivity
Chemical stability
Possibility of hazardous
reactions

Hazardous reactions will not occur under normal conditions of use, storage, and transport. Stable under recommended handling and storage conditions (refer to section 7 of the SDS). 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 Metals, oxidizing agents, acids. Hazardous decomposition No hazardous decomposition products known. products **SECTION 11: Toxicological Information** Information on likely routes of exposure Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation. Ingestion Expected to be a low ingestion hazard. Symptoms related to the

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

This product is not classified as an acute toxicity hazard.

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
•	

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not regulated

physical, chemical, and toxicological characteristics

Acute toxicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

U , U	
Not regulated	
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
SECTION 12: Ecological Inforn	nation
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	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Not regulated

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) 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)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Not regulated

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	0
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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Issue date:

May 2015

Revision date:

05/27/2021

Revision information:

Identification: Emergency response

First-aid: Most important symptoms and effects, both acute and delayed

Toxicological Information: Information on likely routes of exposure



SAFETY DATA SHEET

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

7664-93-9

Revision: 05/27/2021

			Revision. 03/21/20
ECTION 1: Identification			
Product identifier			
Product name	Sulfuric Acid .12N		
Product number	R-0009; R-0009-PL		
Recommended use and restrictions	Water analysis. To be used in accordar guidance of the manufacturer.	nce with manufacturer instructi	ons or under the direct
Manufacturer	Taylor Technologies, Inc. 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		
ECTION 2: Hazard(s) Identifi	cation		
Physical hazards	Corrosive to metals	Category	1
Health hazards	Eye damage/irritation	Category	1
	Skin corrosion/irritation	Category	1C
Environmental hazards	Not currently regulated by OSHA. For a	ι,	
Signal word	Danger		
Hazard statements	May be corrosive to metals. Causes sev	vere skin burns and serious ey	ve damage.
Precautionary statements			
Prevention	Do not breathe dust or mists. Wash skir gloves/protective clothing/eye protection		
Response	IF IN EYES: Rinse cautiously with wate present and easy to do. Continue rinsin center. IF SWALLOWED: Rinse mouth. Immediately take off all contaminated cl clothing before reuse. IF INHALED: Rei breathing. Immediately call a physician material damage.	g. Immediately call a physician Do NOT induce vomiting. IF (lothing. Rinse skin with water. move person to fresh air and k	n or poison control ON SKIN (OR HAIR): Wash contaminated teep comfortable for
Storage	Store locked up. Store in corrosive-resisting tightly capped. Store out of direct sunlig		resistant inner liner. Ke
Disposal	Dispose of contents/container in accord regulations.	lance with local/regional/nation	nal/international
Hazards not otherwise classified	Not applicable		
ECTION 3: Composition/Info	rmation on Ingredients		
Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
0 17 1 1 1		7004.00.0	0.4.4

Sulphuric Acid; Dihydrogen Sulfate

Sulfuric Acid

0.1-1

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.

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

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 s Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals
Hazardous combustion products	Sulfur 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 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.

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 locked up. 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
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m ³ (thoracic particulate)
US NIOSH: Pocket Guide to Chemical Haza	ards	
Components	Туре	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m ³
Sulfuric Acid (CAS 7664-93-9)	IDLH	15 mg/m ³
US OSHA Table Z-1 Limits for Air Contami	nants (29 CFR 1910.1000)	
Components	Туре	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	1 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 safety glasses with side shields (or goggles) if contact is likely to occur. Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur. Wear appropriate protective clothing if contact is likely to occur. Body protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA Respiratory protection 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, colorless, or nearly colorless
Odor	Odorless
Odor threshold	No data available
рН	1.2
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
	Relative density	No data available
	Solubility	Soluble in all proportions
	Partition coefficient (n-octanol/water)	No data available
	Viscosity	No data available
	Explosive properties	Not explosive
	Oxidizing properties	Not oxidizing
SEC	CTION 10: Stability and Rea	ctivity
	Reactivity	May be corrosive to metals.
	Chemical stability	Stable under recommended handling and storage
	Possibility of hazardous	No dangerous reaction known under conditions of

May be conosive to metals.
Stable under recommended handling and storage conditions (refer to section 7 of the SDS).
No dangerous reaction known under conditions of normal use.
Contact with incompatible materials. Do not use in areas without adequate ventilation.
Bases, strong oxidizing agents, strong reducing agents, metals, organic material.
No hazardous decomposition products known.

SECTION 11: Toxicological Information

Information on likely routes of exposure		
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	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

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.		
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			
IARC Monographs. Overall Eval Not regulated	uation of Carcinogenicity		
OSHA Specifically Regulated Su Not regulated	ıbstances (29 CFR 1910.1001-1096)		
US National Toxicology Program (NTP) Report on Carcinogens Not regulated			
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
SECTION 12: Ecological Inform	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	3264
UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Solution)
Reportable Quantity	1000 lbs (Sulphuric Acid)
Class (Subsidiary risk)	8
Label(s)	8
Packing group	III
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging, non-bulk	203
ΙΑΤΑ	
UN number	3264
UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Solution)
Class (Subsidiary risk)	8
Packing group	III
Special provisions	A3, A803
IMDG	
UN number	3264
UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid Solution)
Class (Subsidiary risk)	8
Packing group	111
Environmental hazards	
Marine pollutant	No
Special provisions	223, 274
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

CERCLA Hazardous Subs	tance (40 CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Sulfuric Acid	7664-93-9	1000 lbs
-	ardous Substance (40 CFR	355 Appendices A / B)
Chemical name	CAS number	
Sulfuric Acid	7664-93-9	
SARA 304 Emergency Rel	ease Notification	
Chemical name	CAS number	
Sulfuric Acid	7664-93-9	
SARA 311/312 Hazardous		
Chemical name	CAS number	
Sulfuric Acid	7664-93-9	
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemic	cal Inventory	
All components are on the	e U.S. EPA TSCA Inventory	list.
TSCA Section 12(b) Expor	t Notification (40 CFR 707,	Subpt. D)
Not regulated		
her federal regulations		
-	on 112 Hazardous Air Pollu	tants (HAPs)
Not regulated		
Clean Air Act (CAA) Section	on 112® Accidental Releas	e Prevention (40 CFR 68.130)
Clean Water Act, Toxic an Not regulated	d Priority Pollutants (40 CF	R 401.15 and CFR 423, Appendix A
Safe Drinking Water Act (S Not regulated	SDWA)	
Not regulated	SDWA)	
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Not regulated		nt Act of 1986 (California Propositi
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Not regulated S state regulations California Safe Drinking W Not regulated Massachusetts Right-to-K <u>Chemical name</u> Sulfuric Acid New Jersey Worker and C <u>Chemical name</u> Sulfuric Acid Pennsylvania Worker and <u>Chemical name</u>	Vater and Toxic Enforcement (now Act <u>CAS number</u> 7664-93-9 ommunity Right-to-Know A <u>CAS number</u> 7664-93-9 Community Right-to-Know <u>CAS number</u> 7664-93-9	Act

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.

License granted to make unlimited paper copies for internal use only. This Safety Data Sheet may not be altered in any way without the expressed knowledge and permission of Taylor Technologies, Inc. The information contained in this sheet is based on lab experience and the most current data available.

Issue date:

May 2015

Revision date: 05/27/2021

Revision information:

Identification: Emergency response

First-aid: Most important symptoms and effects, both acute and delayed

Toxicological Information: Information on likely routes of exposure



SAFETY DATA SHEET

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

Revision: 03/11/2022

			Revision: 03/11/2022
SECTION 1: Identification			
Product identifier			
Product name	Calcium Buffer		
Product number	R-0010		
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 E Toll-free: (800) 837-8548 – 8am – 5pr		
Emergency phone number			
CHEMTREC, United States	1-800-424-9300 – 24-hour service		
CHEMTREC, International	+1 703-741-5970 – 24-hour service		
SECTION 2: Hazard(s) Identifi	cation		
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Eye damage/irritation	Category 1	
	Skin corrosion/irritation	Category 1	В
Environmental hazards	Not currently regulated by OSHA. For	additional information, refer to s	ection 12 of the SDS.
Signal word	Danger		
Hazard statements	May be corrosive to metals. Causes s	evere skin burns and serious ey	e damage.
Precautionary statements			
Prevention	Do not breathe dust or mists. Wash sl gloves/protective clothing/eye protecti		
Response	IF IN EYES: Rinse cautiously with wa present and easy to do. Continue rins center. IF SWALLOWED: Rinse mout Immediately take off all contaminated clothing before reuse. IF INHALED: R breathing. Immediately call a physicia material damage.	ing. Immediately call a physician h. Do NOT induce vomiting. IF C clothing. Rinse skin with water. V emove person to fresh air and ke	or poison control ON SKIN (OR HAIR): Wash contaminated eep comfortable for
Storage	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.		
Disposal	Dispose of contents/container in acco regulations.	rdance with local/regional/nation	al/international
Hazards not otherwise classified	Not applicable		
SECTION 3: Composition/Info	rmation on Ingredients		
Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
O II I I I I I			

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

1310-73-2

Caustic Soda

Sodium Hydroxide

1-5

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.

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

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 s	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals
Hazardous combustion products	Sodium 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 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.

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. 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
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
US NIOSH: Pocket Guide to Chemical Hazards	6	
Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
US OSHA Table Z-1 Limits for Air Contaminan	ts (29 CFR 1910.1000)	
Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m ³

Biological limit values

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

Exposure controls

Appropriate engineering controlsGood 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 protectionWear appropriate safety glasses with side shields (or 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, colorless, or nearly colorless
Odor	Odorless
Odor threshold	No data available
рН	13.1
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
Relative 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 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 acids. Strong oxidizing agents. Metals.
Hazardous decomposition products	No hazardous decomposition products known.
CTION 11: Toxicological l	nformation
Information on likely routes of	exposure
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 a line was due to

Corrosive skin/eye damage may occur. Refer to section 4 of the SDS for most important

Symptoms related to the physical, chemical, and toxicological characteristics

Delayed and immediate effects and chronic effects from short- and long-term exposure

handling this product.

symptoms and effects.

Acute toxicity	This product is not classified as an acute toxicity hazard.		
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			
IARC Monographs. Overall Eval	uation of Carcinogenicity		
Not listed			
OSHA Specifically Regulated Sι Not regulated	ubstances (29 CFR 1910.1001-1096)		
US National Toxicology Program (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
SECTION 12: Ecological Inforr	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

DOT	
UN number	1824
UN Proper shipping name	Sodium Hydroxide Solution
Reportable Quantity	5000 lbs
Class (Subsidiary risk)	8
Label(s)	8
Packing group	II
Special provisions	B2, IB2, N34, T7, TP2
Packaging exceptions	154
Packaging, non-bulk	202
ΙΑΤΑ	
UN number	1824
UN Proper shipping name	Sodium Hydroxide Solution
Class (Subsidiary risk)	8
Packing group	II
Special provisions	A3, A803
IMDG	
UN number	1824
UN Proper shipping name	Sodium Hydroxide 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	the state





SECTION 15: Regulatory Information

US federal regulations		
CERCLA Hazardous Substar	nce (40 CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Sodium Hydroxide	1310-73-2	1000 lbs
SARA 302 Extremely Hazard	ous Substance (40 CFR 3	55 Appendices A / B)
Not regulated		
SARA 304 Emergency Release	se Notification	
Not regulated		
SARA 311/312 Hazardous Ch	nemical	
Chemical name	CAS number	
Sodium Hydroxide	1310-73-2	
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemical	Inventory	
All components are on the L	-	st.
TSCA Section 12(b) Export N	-	
Not regulated		. ,
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollut	ants (HAPs)
Not regulated		
Clean Air Act (CAA) Section	112® Accidental Release	Prevention (40 CFR 68,130)
Not regulated		
Clean Water Act, Toxic and F Not regulated	Priority Pollutants (40 CFF	R 401.15 and CFR 423, Appendix A
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·	WA)	
Safe Drinking Water Act (SD Not regulated	WA)	
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Safe Drinking Water Act (SD Not regulated US state regulations California Safe Drinking Wate Not regulated Massachusetts Right-to-Kno Not regulated New Jersey Worker and Corr <u>Chemical name</u> Sodium Hydroxide Pennsylvania Worker and Corr <u>Chemical name</u> Sodium Hydroxide	er and Toxic Enforcement ow Act <u>CAS number</u> 1310-73-2 community Right-to-Know <u>CAS number</u> 1310-73-2	ct
Safe Drinking Water Act (SD Not regulated US state regulations California Safe Drinking Wate Not regulated Massachusetts Right-to-Kno Not regulated New Jersey Worker and Corr <u>Chemical name</u> Sodium Hydroxide Pennsylvania Worker and Corr <u>Chemical name</u>	er and Toxic Enforcement ow Act <u>CAS number</u> 1310-73-2 community Right-to-Know <u>CAS number</u> 1310-73-2	ct

SECTION 16: Other Information

NFPA Rating

Health hazard	2
Fire hazard	0
Reactivity	1
Specific	N/A

Disclaimer

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Issue date:

May 2015

Revision date: 03/11/2022

Revision information:

Identification: remove obsolete product number.



SAFETY DATA SHEET

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

Revision: 11/11/2021

CTION 1: Identification		Revision: 11/11/202	
Product identifier			
Product identifier Product name	Calcium Indicator Liquid		
Product number	R-0011L		
Recommended use and		Water analysis. To be used in accordance with manufacturer instructions or under the direct	
restrictions	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) identi	fication		
Physical hazards	Flammable liquids	Category 2	
Health hazards	Eye damage/irritation	Category 2A	
	Specific target organ toxicity, single exposure	Category 3	
Environmental hazards	Not currently regulated by OSHA. For additional inf	ormation, refer to section 12 of the SDS.	
Hazard pictograms			
Signal word	Danger		
Hazard statements	Highly flammable liquid and vapor. Causes serious dizziness.	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.	
Precautionary statements			
Prevention	Keep away from heat/sparks/open flames/hot surfacesNo smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection if contact is likely to occur. Wash skin thoroughly after handling. Avoid breathing dust/fumes/gas/mists/vapors/spray. Use only outdoors or in a well-ventilated area.		
Response	IF INHALED: Remove person to fresh air and keep or poison center if you feel unwell.	comfortable for breathing. Call a physician	
	IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water.		
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if presen and easy to do. Continue rinsing.		
	IF EYE IRRITATION PERSISTS: Get medical advice	ce/attention.	
	IN CASE OF FIRE: Use alcohol-resistant foam, car fog to extinguish.	bon dioxide, dry chemical powder, or water	
Storage	Store in well-ventilated place. Keep cool. Keep tigh between 36°F-85°F. Store locked up.	Store in well-ventilated place. Keep cool. Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazards not otherwise classified	d Not applicable		

SECTION 3: Composition/information on ingredients

-6 60-80
0-00
) 10-30
-2 0.01-1
olicable <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

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 headache, drowsiness, or dizziness. 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	Alcohol-resistant foam, carbon dioxide, dry chemical powder, or water fog.
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	Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can be electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential static discharge, use proper bonding and grounding procedures. This material may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and may spread along floors.
Explosion hazard	Vapors may form explosive mixtures with air. This material may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and may spread along floors.
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Carbon oxides, nitrogen 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.

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 contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. 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 handle until all safety precautions have been read and understood. 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 in well-ventilated place. Keep cool. 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
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Components		Туре	Value	
Isopropanol (CAS 67-63-0)		STEL	400 ppm (980 r	mg/m³)
Isopropanol (CAS 67-63-0)		TWA	200 ppm (492 r	ng/m³)
Triethanolamine (CAS 102-71-6	6)	TWA	5 mg/m ³	
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m ³	
US NIOSH: Pocket Guide to Che	mical Hazards			
Components		Туре	Value	
Isopropanol (CAS 67-63-0)		ST	500 ppm (1225	mg/m³)
Isopropanol (CAS 67-63-0)		TWA	400 ppm (980 r	mg/m³)
Isopropanol (CAS 67-63-0)		IDLH	2,000 ppm (492	20 mg/m ³)
Diethanolamine (CAS 111-42-2)	TWA	3 ppm (15 mg/r	m ³)
US OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 1910.1000)		
Components		Туре	Value	
Isopropanol (CAS 67-63-0)		TWA	400 ppm (980 r	mg/m³)
iological limit values				
ACGIH Biological Exposure Indic	es			
Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	End of shift at end of

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

workweek

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.

Personal protective equipment	
Eye/face protection	Wear appropriate safety glasses with side shields (or 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	Dark purple to dark blue
Odor	Alcohol
Odor threshold	No data available
рН	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	180°F (82ºC)
Flash point	53ºF (12ºC) Closed cup
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Flammable
Upper Flammability Limit	UEL 12% v/v
Lower Flammability Limit	LEL 2% v/v
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Moderately explosive when exposed to heat or flame.
Oxidizing properties	No data available

ReactivityHazardous reactions will not occur under normal conditions of use, storage, and transport.Chemical stabilityStable under recommended handling and storage conditions (refer to section 7 of the SDS.)Possibility of hazardous
reactionsNo dangerous reaction known under conditions of normal use.Conditions to queidHeat aparka apar flames and other insister powerse. Temperatures exceeding the flash po

Conditions to avoid	Heat, sparks, open flames, and other ignition sources. Temperatures exceeding the flash point. Direct sunlight. Contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials	Strong oxidizing agents. Strong acids and bases. Acetaldehyde, ethylene oxide, and isocyanates.
Hazardous decomposition products	No hazardous decomposition products under normal conditions.

SECTION 11: Toxicological information

Information on likely routes of exposure Inhalation Avoid inhalation of this product. Use in a well-ventilated area.

Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
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	Inhalation of mist or vapor may cause drowsiness or dizziness. 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	No data available
Serious eye damage/eye irritation	Causes 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
Diethanolamine, Group 2B, Pos to its carcinogenicity to humans	sibly carcinogenic to humans. Triethanolamine, Isopropyl alcohol, Group 3, Not classifiable a
OSHA Specifically Regulated Su	ubstances (29 CFR 1910.1001-1096)
Not regulated	
US National Toxicology Program	n (NTP) Report on Carcinogens
Not listed	
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
CTION 12: Ecological inform	ation
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.
CTION 13: Disposal consider	rations
Collect and reclaim or dispose of in s	ealed containers at a licensed waste disposal site. Since emptied containers may retain produc
residue, follow label warnings even at	ordance with local/regional/national/international regulations.
residue, follow label warnings even at	ordance with local/regional/national/international regulations.
residue, follow label warnings even at Dispose of contents/container in acco	ordance with local/regional/national/international regulations.
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa	ordance with local/regional/national/international regulations.
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT	ordance with local/regional/national/international regulations.
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number	ordance with local/regional/national/international regulations.
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name	1219 Isopropyl alcohol solution
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name Reportable Quantity	1219 Isopropyl alcohol solution None
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name Reportable Quantity Class (Subsidiary risk)	1219 Isopropyl alcohol solution 3
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name Reportable Quantity Class (Subsidiary risk) Label(s)	1219 Isopropyl alcohol solution None 3 3
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name Reportable Quantity Class (Subsidiary risk) Label(s) Packing group	1219 Isopropyl alcohol solution None 3 3 II
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name Reportable Quantity Class (Subsidiary risk) Label(s) Packing group Special provisions	1219 Isopropyl alcohol solution 3 3 II IB2, T4, TP1
residue, follow label warnings even at Dispose of contents/container in acco CTION 14: Transport informa DOT UN number UN Proper shipping name Reportable Quantity Class (Subsidiary risk) Label(s) Packing group Special provisions Packaging exceptions	1219 Isopropyl alcohol solution None 3 3 II IB2, T4, TP1 4b, 150

UN Proper shipping name	Isopropyl alcohol solution
Class (Subsidiary risk)	3
Packing group	II
Special provisions	A180
IMDG	
UN number	1219
UN Proper shipping name	Isopropyl alcohol solution
Class (Subsidiary risk)	3
Packing group	II
Environmental hazards	
Marine pollutant	No
Special provisions	None
EmS	F-E, S-D
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	

IATA; IMDG hazard pictograms



Chemical name	tance (40 CFR 302.4) CAS number	Reportable Quantity
Diethanolamine	111-42-2	100 lbs
SARA 302 Extremely Haza	rdous Substance (40 CFR	355 Appendices A / B)
Not regulated		
SARA 304 Emergency Rel	ease Notification	
Not regulated		
SARA 311/312 Hazardous	Chemical	
Chemical name	CAS number	
Isopropanol	67-63-0	
Triethanolamine	102-71-6	
Diethanolamine	111-42-2	
SARA 313 (TRI reporting)		
Chemical name	CAS number	
Isopropanol	67-63-0	
Diethanolamine	111-42-2	
TSCA Section 8(b) Chemic	al Inventory	
		list.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) 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)

Chemical name	CAS number

Diethanolamine 111-42-2

WARNING: This product can expose you to Diethanolamine, which is known to the State of California to cause cancer. For more information go to <u>www.P65Warnings.ca.gov</u>

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

-	, ,
Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6
Diethanolamine	111-42-2
Pennsylvania Worker and Co	mmunity Right-to-Know Act
Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6
Diethanolamine	111-42-2
Rhode Island Right-to-Know	Act
Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6
Diethanolamine	111-42-2
TION 16: Other information	on
NFPA Rating	
Health hazard	2
Fire hazard	3
Popotivity.	0

The hazara	U
Reactivity	0
Specific	N/A

Disclaimer

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Issue date:

May 2015

Revision date:

11/11/2021

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.

Hazard information: Format

Supersedes revision dated 05/19/2021.



SAFETY DATA SHEET

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

Revision: 03/11/2022

Hardness Reagent
R-0012
Water analysis. To be used in accordance with manufacturer instructions or under the direct guidance of the 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
1-800-424-9300 – 24-hour service
+1 703-741-5970 – 24-hour service
ication
Not applicable
Not applicable
Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.
Not applicable
Not applicable
Not applicable
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.
This reagent is not defined as a hazardous chemical per OSHA's Hazard Communication Standard 2012; however, use care when handling.
Keep tightly capped. Store out of direct sunlight between 36°F–85°F.
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	80-100
Non-hazardous and other components below reportable levels	Not applicable	Not applicable	1-5

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

Use extinguishing media appropriate for surrounding fire.
Do not use a heavy water stream. Use of heavy stream of water may spread fire.
substance or mixture
Not flammable
Not explosive
Hazardous reactions will not occur under normal conditions.
Carbon oxides, hydrogen chloride gas, magnesium oxides, nitrogen oxides, sodium oxides. During fire, gases hazardous to health may be formed.
Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Use water spray or fog for cooling exposed containers.
Do not enter fire area without proper protective equipment, including respiratory protection.
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

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 safety glasses with side shields (or 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, colorless or nearly colorless
	Odor	Odorless
	Odor threshold	No data available
	рН	8.1
	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
-	TION 10. Stability and react	tiv/itv/

SECTION 10: Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous
reactions

Hazardous reactions will not occur under normal conditions of use, storage, and transport. Stable under recommended handling and storage conditions (refer to section 7 of the SDS). 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 and metals. No hazardous decomposition products known. Hazardous decomposition products SECTION 11: Toxicological Information Information on likely routes of exposure Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation. Expected to be a low ingestion hazard. Ingestion Symptoms related to the Refer to section 4 of the SDS for most important symptoms and effects. physical, chemical, and toxicological characteristics 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. Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available **Respiratory sensitization** No data available Skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC Monographs. Overall Evaluation of Carcinogenicity Not listed OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096) Not regulated US National Toxicology Program (NTP) Report on Carcinogens Not listed

NULIISLEU	
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
SECTION 12: Ecological Inform	nation
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	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Not regulated

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) 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)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Not regulated

Pennsylvania Worker and Community Right-to-Know Act

Not regulated

Rhode Island Right-to-Know Act

Not regulated

SECTION 16: Other Information

Health hazard	0
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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Issue date:

May 2015

Revision date:

03/11/2022

Revision information:

Identification: remove obsolete product number.



SAFETY DATA SHEET

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

S

Revision: 3/11/2022

CTION 1: Identification		
Product identifier		
Product name	Cyanuric Acid Reagent	
Product number	R-0013	
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	г
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) Identifi	cation	
Physical hazards	Not applicable	
Health hazards	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
Environmental hazards	Not currently regulated by OSHA. For additi	ional information, refer to section 12 of the SDS
Label elements Hazard pictograms		
Signal word	Warning	
Hazard statements	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.	
Precautionary statements		
Prevention	Obtain special instructions before use. Do n read and understood. Wear protective glove protection if contact is likely to occur.	not handle until all safety precautions have beer es/protective clothing/eye protection/face
	IF EXPOSED OR CONCERNED: Get medical advice/attention.	
Response	IF EXPOSED OR CONCERNED: Get medi	cal advice/attention.
Response Storage	IF EXPOSED OR CONCERNED: Get media Store locked up. Keep tightly capped. Store	
		out of direct sunlight between 36°F-85°F.

SECTION 3: Composition/Information on Ingredients

Mixture **Chemical name** Common name and synonyms CAS number % w/w Water 7732-18-5 80-100 Dihydrogen oxide 1,3,5-Triazine-2,4,6-triamine 108-78-1 Melamine 0.1-1 Non-hazardous and other Not applicable Not applicable <1 components below reportable levels

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 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 Fire hazard	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. During fire, gases hazardous to health may be formed, such as toxic hydrogen cyanide.
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	

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 dust or mist. 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

SECTION 8: Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for the ingredient(s).

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 safety glasses with side shields (or 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, colorless or nearly colorless
Odor	Odorless
Odor threshold	No data available
рН	5.8
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)	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	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
TION 10, Stability and Base	4 · · · 4

SECTION 10: Stability and Reactivity

Reactivity
Chemical stability
Possibility of hazardous
reactions

Hazardous reactions will not occur under normal conditions of use, storage, and transport. Stable under recommended handling and storage conditions (refer to section 7 of the SDS). No dangerous reaction known under conditions of normal use. Conditions to avoid

Incompatible materials Hazardous decomposition products Contact with incompatible materials. Do not use in areas without adequate ventilation.

Strong oxidizing agents and strong reducing agents. Strong bases.

No hazardous decomposition products known.

Information on likely routes of e	xposure
Inhalation	Avoid inhalation of this product. Use in a well-ventilated area.
Skin contact	Direct contact with skin may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after handling this product.
Symptoms related to the physical, chemical, and	This product contains an ingredient suspected of causing cancer, damaging fertility, or possible risk to the unborn child.
toxicological characteristics	Refer to section 4 of the SDS for most important symptoms and effects.
Delayed and immediate effects a	and chronic effects from short- and long-term exposure
Acute toxicity	This product is not classified as an acute toxicity hazard.
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	Suspected of causing cancer.
OSHA Specifically Regulated	roup 2B possibly carcinogenic to humans. Substances (29 CFR 1910.1001-1096)
Not regulated	
US National Toxicology Progr	ram (NTP) Report on Carcinogens
Not listed	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity	No data available
(single exposure) Specific target organ toxicity	No data available No data available
(single exposure)	
(single exposure) Specific target organ toxicity (repeated exposure)	No data available No data available
(single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard CTION 12: Ecological Infor	No data available No data available
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(single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard CTION 12: Ecological Infor Ecotoxicity Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects CTION 13: Disposal Consid Collect and reclaim or dispose of in residue, follow label warnings even	No data available No data available mation This product is not classified as environmentally hazardous. No data available No data available No data available Large or frequent spills can have a harmful or damaging effect on the environment. terations a sealed containers at a licensed waste disposal site. Since emptied containers may retain produ after container is emptied. This material and its container must be disposed of in a safe manner cordance with local/regional/national/international regulations.
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SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

Chemical name	CAS number	
Melamine	108-78-1	
SARA 313 (TRI reporting) Not regulated		
TSCA Section 8(b) Chemica All components are on the	al Inventory U.S. EPA TSCA Inventory list.	
TSCA Section 12(b) Export Not regulated	Notification (40 CFR 707, Subpt. D)	
Other federal regulations		
Clean Air Act (CAA) Section Not regulated	n 112 Hazardous Air Pollutants (HAPs)	
Clean Air Act (CAA) Section Not regulated	n 112® 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 (Si	DWA)	
Not regulated		
JS state regulations		
JS state regulations California Safe Drinking Wa	ater and Toxic Enforcement Act of 1986 (California Proposition 65) tain any chemicals known to the State of California to cause cancer, birth, or any other	reprodu
JS state regulations California Safe Drinking Wa This product does not cont	tain any chemicals known to the State of California to cause cancer, birth, or any other	reprodu
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Revision date: 03/11/2022

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.