

SAFETY DATA SHEET

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

Water analysis. To be used in accordance with manufacturer instructions or under the direct

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 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) Identification

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

Not applicable Hazard pictograms Signal word Not applicable

Hazard statements The mixture does not meet the criteria for classification.

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.

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

Standard 2012; however, use care when handling.

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

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

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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

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.

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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

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

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

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 state Liquid Form Liquid

Color Clear, colorless or nearly colorless

Odor Odorless

Odor threshold No data available

pH 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

Solubility Soluble in all proportions

Partition coefficient No data available

(n-octanol/water)

Viscosity

No data available
Explosive properties

Not explosive
Oxidizing properties

Not oxidizing

SECTION 10: Stability and Reactivity

ReactivityHazardous 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.

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Conditions to avoidContact with incompatible materials.Incompatible materialsStrong acids, 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.

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/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard No data available

SECTION 12: Ecological Information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo 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

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

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

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

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:

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 identifier

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 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) Identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1C

Environmental hazards

Label elements

Hazard pictograms

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Signal word Danger

Hazard statements Causes severe skin burns and serious eye damage. May be corrosive to metals.

Precautionary statements

Prevention Do not breathe mist or vapor. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection if contact is likely to occur. Keep only

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

in original container.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing. Immediately call a physician or poison control center.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call

a physician or poison control center.

Absorb spillage to prevent material damage.

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 accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

Supplemental information Do not use if solution is dark pink.

SDS US

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

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

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity May be corrosive to metals.

Hazardous combustion products Carbon oxides, nitrogen oxides, phosphorous 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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.

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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

pH ´

No data available Evaporation rate 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)

Upper Flammability Limit

Lower Flammability Limit

Vapor pressure

Relative vapor density

Not applicable

No data available

No data available

No data available

Solubility Soluble in all proportions

Partition coefficient

(n-octanol/water)

No data available

Viscosity

Explosive properties

Oxidizing properties

Percent volatile

No data available

Not oxidizing

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 decompositionNo hazardous decomposition products known.

products

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

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

symptoms and effects.

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 Causes severe skin burns.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data availableCarcinogenicityNo data available

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classified

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not classified

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

gan toxicity 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 8 Class (Subsidiary risk) Label(s) 8 **Packing group** Ш

Special provisions 386, IB3, T7, TP1, TP28

Packaging exceptions 154 Packaging, non-bulk 203

IATA

UN number UN3265

UN Proper shipping name Corrosive liquid, acidic, organic, N.O.S (Phosphorous-based organic acid)

Class (Subsidiary risk) 8 Ш Packing group

Special provisions A3, A803

IMDG

UN number UN3265

UN Proper shipping name Corrosive liquid, acidic, organic, N.O.S (Phosphorous-based organic acid)

8 Class (Subsidiary risk) Ш Packing group

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.

This substance/mixture is not intended to be transported in bulk.

Transport in bulk according to Annex II

of MARPOL 73/78 and the IBC Code

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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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:

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.



AFETY DATA SHEET

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

Revision: 05/14/2021

SECTION 1: Identification

Product identifier

Product name DPD Reagent #3 R-0003: R-0003-PL Product number

Recommended use and

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

SECTION 2: Hazard(s) Identification

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 SDS.

Water analysis. To be used in accordance with manufacturer instructions or under the direct

Label elements

Hazard pictograms



Signal word

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. Do

not eat, drink, or smoke when using this product.

IF EXPOSED OR CONCERNED: Get medical advice/attention if you feel unwell. Response

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

ΝЛ	iv+	ıro

Chemical name	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 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

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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 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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).

SECTION 8: Exposure Controls/Personal Protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Components	Туре	Value
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm

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.

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 to slightly yellow

Odor Odorless

Odor threshold No data available

pH 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 No data available Lower Flammability Limit Vapor pressure No data available Vapor density No data available Relative density No data available Solubility No data available Partition coefficient No data available

(n-octanol/water)

Viscosity No data available 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. 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.

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

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 chronic effects from short- and long-term exposure

Acute toxicityThis product is not classified as an acute toxicity hazard.

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classified

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not classified

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

Causes damage to thyroid through prolonged or repeated exposure, oral route.

Aspiration hazard No data available

SECTION 12: Ecological Information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo 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

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

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

Chemical nameCAS numberPotassium Iodide7681-11-0

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® 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 2
Fire hazard 0

Reactivity 0 Specific N/A

Disclaimer

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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

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) Identification

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

R/A	lixtı	
IVI	HXTI	112

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

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,

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

notify relevant authorities in accordance with all applicable regulations.

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 ventilati

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, red Odor Slight phenolic Odor threshold No data available No data available рΗ Evaporation rate No data available No data available Melting point No data available Freezing point Initial boiling point (boiling range) No data available Flash point No data available No data available Specific gravity No data available Auto-ignition temperature 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

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 Acids, bases, iodides, lead, mercury salts, metals, oxidizing agents, silver salts, sodium nitrate.

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.

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/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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

Reproductive toxicity

Specific target organ toxicity
(single exposure)

No data available
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

Bioaccumulative potential

Mobility in soil

No data available

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 goodsIATA Not regulated as dangerous goodsIMDG Not regulated as dangerous goods

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

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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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.



SAFETY DATA SHEET

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

Water analysis. To be used in accordance with manufacturer instructions or under the direct

Revision: 03/11/2022

SECTION 1: Identification

Product identifier

Product name Acid Demand Reagent

Product number R-0005

Recommended use and

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

SECTION 2: Hazard(s) Identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1C

Environmental hazards

Label elements

Hazard pictograms

Signal word Danger

Hazard statements May be corrosive to metals. Causes severe skin burns and serious eye damage.

Precautionary statements

Prevention Do not breathe dust or mists. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection. Keep only in original container.

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center. Absorb spillage to prevent

material damage.

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 accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

SECTION 3: Composition	on/Information on Ingredients		
Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Sulfuric Acid	Sulphuric Acid; Dihydrogen Sulfate	7664-93-9	0.1-1

SDS US

SECTION 4: First-Aid Measures

If inhale

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 substance or mixture

Fire hazard 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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.

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

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

Sulfuric Acid (CAS 7664-93-9)

Components	Туре	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m³ (thoracic particulate)
US NIOSH: Pocket Guide to Chemical Haza	ırds	
Components	Туре	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m³

US OSHA Table Z-1 Limits for Air Contaminants (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

IDLH

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

15 mg/m³

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

1.3 pΗ

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 No data available Vapor pressure Vapor density No data available Relative density No data available

Solubility Soluble in all proportions

Partition coefficient No data available

(n-octanol/water)

Viscosity

No data available
Explosive properties

Not explosive
Oxidizing properties

Not oxidizing

SECTION 10: Stability and Reactivity

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.

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

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 sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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 Information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

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

IATA

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 III

Environmental hazards

Marine pollutantNoSpecial provisions223, 274EmSF-A, S-B

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

This substance/mixture is not intended to be transported in bulk.

DOT hazard pictograms





SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Sulfuric Acid 7664-93-9 1000 lbs

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

Chemical name CAS number

Sulfuric Acid 7664-93-9

SARA 304 Emergency Release 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) 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

Chemical name CAS number

Sulfuric Acid 7664-93-9

New Jersey Worker and Community Right-to-Know Act

Chemical name CAS number

Sulfuric Acid 7664-93-9

Pennsylvania Worker and Community Right-to-Know Act

Chemical name CAS number

Sulfuric Acid 7664-93-9

Rhode Island Right-to-Know Act

Chemical name CAS number

Sulfuric Acid 7664-93-9

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: 05/27/2021

SECTION 1: Identification

Product identifier

Product name **Base Demand Reagent**

Product number R-0006

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

SECTION 2: Hazard(s) Identification

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 Not applicable Signal word 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.

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

Standard 2012; however, use care when handling.

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

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

М	ixt	tu	ro

	xta.o				
_	Chemical name	Common name and synonyms	CAS number	% w/w	
	Water	Dihydrogen oxide	7732-18-5	80-100	
	Non-hazardous and other	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.

SDS US

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

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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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.

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

pH 11.2

Evaporation rate No data available No data available Melting point No data available Freezing point Initial boiling point (boiling range) No data available Flash point No data available No data available Specific gravity No data available Auto-ignition temperature 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

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 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 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 toxicityThis product is not classified as an acute toxicity hazard.

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

IARC Monographs. Overall Evaluation of Carcinogenicity

Not regulated

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not regulated

Reproductive toxicity

Specific target organ toxicity
(single exposure)

No data available
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

Bioaccumulative potential

Mobility in soil

No data available

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

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

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

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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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)

Water analysis. To be used in accordance with manufacturer instructions or under the direct

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

quidance of the manufacturer.

Manufacturer Taylor

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) Identification

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

М	ixt	tu	ro

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Non-hazardous and other	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.

SDS US

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

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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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

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

pH 9.6

Evaporation rate No data available Melting point No data available No data available Freezing point Initial boiling point (boiling range) No data available Flash point No data available Specific gravity No data available No data available Auto-ignition temperature 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

Soluble in all proportions

Partition coefficient No data available

(n-octanol/water)

Viscosity

No data available
Explosive properties

No data available
Oxidizing properties

No data available

SECTION 10: Stability and Reactivity

ReactivityHazardous 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 avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Strong oxidizing agents.

Hazardous decompositionNo 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 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/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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

No data available

(single exposure)

Specific target organ toxicity No

(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

Bioaccumulative potential

Mobility in soil

No data available

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

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

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

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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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: 05/27/2021

SECTION 1: Identification

Product identifier

restrictions

Product name Total Alkalinity Indicator

Product number R-0008; R-0008-PL

Recommended use and

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) Identification

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

м	ixt	ırρ

_	Chemical name	Common name and synonyms	CAS number	% w/w
	Water	Dihydrogen oxide	7732-18-5	80-100
	Non-hazardous and other	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.

SDS US

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 Use

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

pH 8.5

Evaporation rate No data available Melting point No data available No data available Freezing point Initial boiling point (boiling range) No data available Flash point No data available Specific gravity No data available No data available Auto-ignition temperature 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 No data available

(n-octanol/water)

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

SECTION 10: Stability and Reactivity

ReactivityHazardous 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 No dangerous reaction known under

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materialsMetals, oxidizing agents, acids.

Hazardous decompositionNo 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 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 toxicityThis product is not classified as an acute toxicity hazard.

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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

No data available

(single exposure)

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

Bioaccumulative potential

Mobility in soil

No data available

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

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

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

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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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: 05/27/2021

SECTION 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 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) Identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1C

Environmental hazards

Label elements

Hazard pictograms

Signal word Danger

Hazard statements May be corrosive to metals. Causes severe skin burns and serious eye damage.

Precautionary statements

Prevention Do not breathe dust or mists. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection. Keep only in original container.

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center. Absorb spillage to prevent

material damage.

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 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	
Sulfuric Acid	Sulphuric Acid; Dihydrogen Sulfate	7664-93-9	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

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity May be corrosive to metals

Hazardous combustion products 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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

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

Sulfuric Acid (CAS 7664-93-9)

Components	Туре	<u>Value</u>	
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m³ (thoracic particulate)	

US NIOSH: Pocket Guide to Chemical Hazards

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

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

TWA

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

1 mg/m³

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

1.2 pΗ

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 No data available Vapor pressure Vapor density No data available Relative density No data available

Solubility Soluble in all proportions

Partition coefficient No data available

(n-octanol/water)

Viscosity

No data available
Explosive properties

Not explosive
Oxidizing properties

Not oxidizing

SECTION 10: Stability and Reactivity

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.

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

Acute toxicityThis 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 sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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 Information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

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

IATA

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 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

DOT hazard pictograms

the IBC Code

This substance/mixture is not intended to be transported in bulk.

d ·





SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Sulfuric Acid 7664-93-9 1000 lbs

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

Chemical name CAS number

Sulfuric Acid 7664-93-9

SARA 304 Emergency Release Notification

Chemical nameCAS numberSulfuric Acid7664-93-9

SARA 311/312 Hazardous Chemical

Chemical name CAS number

Sulfuric Acid 7664-93-9

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) 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® 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

Chemical name CAS number

Sulfuric Acid 7664-93-9

New Jersey Worker and Community Right-to-Know Act

Chemical name CAS number

Sulfuric Acid 7664-93-9

Pennsylvania Worker and Community Right-to-Know Act

Chemical name CAS number

Sulfuric Acid 7664-93-9

Rhode Island Right-to-Know Act

Chemical name CAS number

Sulfuric Acid 7664-93-9

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:

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

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 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) Identification

Physical hazards Corrosive to metals Category 1 Health hazards Eye damage/irritation Category 1 Skin corrosion/irritation Category 1B

Environmental hazards

Label elements Hazard pictograms Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.



Signal word Danger

May be corrosive to metals. Causes severe skin burns and serious eye damage. Hazard statements

Precautionary statements

Prevention Do not breathe dust or mists. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection. Keep only in original container.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Response

present and easy to do. Continue rinsing. Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center. Absorb spillage to prevent

material damage.

Store locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. Keep Storage

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

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

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 Sodium Hydroxide Caustic Soda 1310-73-2 1-5

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

SDS US Calcium Buffer; R-0010

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 substance or mixture

Fire hazard 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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.

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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

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 Hazard	s	
Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
US OSHA Table Z-1 Limits for Air Contaminar	nts (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 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

pH 13.1

Evaporation rate

Melting point

Freezing point

Initial boiling point (boiling range)

Flash point

Specific gravity

No data available

No data available

No data available

No data available

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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

SECTION 10: Stability and Reactivity

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 avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materialsStrong acids. Strong oxidizing agents. Metals.Hazardous decompositionNo hazardous decomposition products known.

products

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

Acute toxicity This product is not classified as an acute toxicity hazard.

Skin corrosion/irritationCauses severe skin burns.Serious eye damage/eye irritationCauses 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 listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not listed

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

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Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard

No data available

SECTION 12: Ecological Information

This product is not classified as environmentally hazardous. **Ecotoxicity**

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

UN Proper shipping name Sodium Hydroxide Solution

Reportable Quantity 5000 lbs

Class (Subsidiary risk) 8 8 Label(s) Ш Packing group

Special provisions B2, IB2, N34, T7, TP2

Packaging exceptions 154 Packaging, non-bulk 202

IATA

UN number 1824

UN Proper shipping name Sodium Hydroxide Solution

Class (Subsidiary risk) 8 **Packing group** Ш

Special provisions A3, A803

IMDG

UN number 1824

UN Proper shipping name Sodium Hydroxide Solution

8 Class (Subsidiary risk) Packing group Ш

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



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SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Sodium Hydroxide 1310-73-2 1000 lbs

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

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 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® Accidental Release Prevention (40 CFR 68.130)

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

Chemical name CAS number Sodium Hydroxide 1310-73-2

Pennsylvania Worker and Community Right-to-Know Act

Chemical name CAS number Sodium Hydroxide 1310-73-2

Rhode Island Right-to-Know Act

Chemical name CAS number

Sodium Hydroxide 1310-73-2

SDS US Calcium Buffer; R-0010

SECTION 16: Other Information

NFPA Rating

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

Disclaimer

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

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Issue date:

May 2015

Revision date:

03/11/2022

Revision information:

Identification: remove obsolete product number.

Calcium Buffer; R-0010



SAFETY DATA SHEET

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

Water analysis. To be used in accordance with manufacturer instructions or under the direct

Revision: 11/11/2021

SECTION 1: Identification

Product identifier

Product name Calcium Indicator Liquid

Product number R-0011L

Recommended use and

restrictions

guidance of the manufacturer.

Taylor Technologies, Inc.

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) identification

 Physical hazards
 Flammable liquids
 Category 2

 Health hazards
 Eye damage/irritation
 Category 2A

 Specific target organ toxicity single expecture
 Category 3

Environmental hazards

Label elements

Hazard pictograms

Specific target organ toxicity, single exposure Category 3

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.



Signal word Danger

Hazard statements 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 surfaces. -No 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 comfortable for breathing. Call a physician

or poison center if you feel unwell.

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 present

and easy to do. Continue rinsing.

IF EYE IRRITATION PERSISTS: Get medical advice/attention.

IN CASE OF FIRE: Use alcohol-resistant foam, carbon dioxide, dry chemical powder, or water

fog to extinguish.

Storage 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 Not applicable

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SECTION 3:	Comp	ocition/int	ormation	on indi	adiants
SECTION 3.	COIIID		Ommation	OH HIGH	GUIGIIIS

Mixture

MIXTUIC			
Chemical name	Common name and synonyms	CAS number	% w/w
Triethanolamine	Trolamine, 2,2', 2" -Nitrilotriethanol	102-71-6	60-80
Isopropyl alcohol	Isopropanol	67-63-0	10-30
Diethanolamine	2,2'-iminodiethanol	111-42-2	0.01-1
Non-hazardous components	Not applicable	Not applicable	<1

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

First-aid measures SECTION 4:

If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

In case of eve contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice/attention.

If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Direct skin or eye contact may cause irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Inhalation may cause 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

Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition Fire hazard

> 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

Use water spray or fog for cooling exposed containers. equipment/instructions

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

Components	Туре	Value
Isopropanol (CAS 67-63-0)	STEL	400 ppm (980 mg/m³)
Isopropanol (CAS 67-63-0)	TWA	200 ppm (492 mg/m³)
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m³
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m³
S NIOSH: Pocket Guide to Chemical Hazar	ds	
Components	Type	Value
Isopropanol (CAS 67-63-0)	ST	500 ppm (1225 mg/m³)
Isopropanol (CAS 67-63-0)	TWA	400 ppm (980 mg/m³)
Isopropanol (CAS 67-63-0)	IDLH	2,000 ppm (4920 mg/m ³)
Diethanolamine (CAS 111-42-2)	TWA	3 ppm (15 mg/m³)
C OCUA Table 7.4 Limite for Air Contomin	(20 CED 4040 4000)	

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Isopropanol (CAS 67-63-0)	TWA	400 ppm (980 mg/m ³)

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	End of shift at end of workweek

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 state Liquid Form Liquid

Color Dark purple to dark blue

Odor Alcohol

Odor threshold

pH

No data available

Evaporation rate

No data available

Melting point

No data available

Flash point 53°F (12°C) Closed cup
Specific gravity No data available
Auto-ignition temperature No data available
Decomposition temperature No data available
Flammability (solid, gas) Flammable

Flammability (solid, gas)

Upper Flammability Limit

Lower Flammability Limit

LEL 2% v/v

Vapor pressure

Vapor density

Relative density

No data available

No data available

No data available

Solubility Soluble in all proportions

Partition coefficient No data available

(n-octanol/water)

Viscosity No data available

Explosive properties Moderately explosive when exposed to heat or flame.

Oxidizing properties 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 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

iazardous 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 chronic effects from short- and long-term exposure

Acute toxicityThis 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 sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Diethanolamine, Group 2B, Possibly carcinogenic to humans. Triethanolamine, Isopropyl alcohol, Group 3, Not classifiable as

to its carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not listed

Reproductive toxicity No data available

Specific target organ toxicity

(single exposure)

May cause drowsiness or dizziness.

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 degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo 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 1219

UN Proper shipping name Isopropyl alcohol solution

Reportable Quantity

Class (Subsidiary risk)

Label(s)

Packing group

None

3

II

Special provisions IB2, T4, TP1
Packaging exceptions 4b, 150
Packaging, non-bulk 202

IATA

UN number 1219

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 ||

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

SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Diethanolamine 111-42-2 100 lbs

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

Chemical nameCAS numberIsopropanol67-63-0Triethanolamine102-71-6Diethanolamine111-42-2

SARA 313 (TRI reporting)

Chemical name CAS number

Isopropanol 67-63-0 Diethanolamine 111-42-2

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)

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 www.P65Warnings.ca.gov

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 Community 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		

SECTION 16: Other information

NFPA Rating

Health hazard	2
Fire hazard	3
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

SECTION 1: Identification

Product identifier

restrictions

Product name Hardness Reagent

Product number R-0012

Recommended use and

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) Identification

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

R/		4	
IVI	IIX	tu	re

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Non-hazardous and other	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.

SDS US

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

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 chloride gas, magnesium oxides, nitrogen oxides, sodium 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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 G

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

pH 8.1

Evaporation rate No data available Melting point No data available No data available Freezing point Initial boiling point (boiling range) No data available Flash point No data available No data available Specific gravity No data available Auto-ignition temperature 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 No data available

(n-octanol/water)

Viscosity

No data available
Explosive properties

No data available
Oxidizing properties

No data available

SECTION 10: Stability and reactivity

ReactivityHazardous 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 Oxidizing agents and metals.

Hazardous decompositionNo 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 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/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo 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

Reproductive toxicity

Specific target organ toxicity
(single exposure)

No data available
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

Bioaccumulative potential

Mobility in soil

No data available

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

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

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

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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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: 3/11/2022

SECTION 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

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

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) Identification

Physical hazards Not applicable

Health hazards Carcinogenicity Category 2

Reproductive toxicity Category 2

Environmental hazards

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 not handle until all safety precautions have been

read and understood. Wear protective gloves/protective clothing/eye protection/face

protection if contact is likely to occur.

Response IF EXPOSED OR CONCERNED: Get medical advice/attention.

Storage Storage Store locked up. 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

	<u> </u>
Mixture	
Chemical name	Common name and synony

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

levels

SECTION 4: First-Aid Measures

components below reportable

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.

SDS US

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. 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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

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

pH 5.8

Evaporation rate

Melting point

No data available

range)

Flash point Not applicable Specific gravity No data available No data available Auto-ignition temperature 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 No data available

(n-octanol/water)

Viscosity 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 hazardousNo dangerous reaction known under conditions of normal use.

roosione

reactions

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Strong oxidizing agents and strong reducing agents. Strong bases.

Hazardous decomposition No hazardous decomposition products known.

products

SECTION 11: Toxicological Information

Information on likely routes of exposure

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.

Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly Ingestion

after handling this product.

Symptoms related to the This product contains an ingredient suspected of causing cancer, damaging fertility, or

physical, chemical, and 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 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 eve damage/eve No data available

irritation

Respiratory sensitization No data available Skin sensitization No data available Germ cell mutagenicity No data available

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Melamine (CAS 108-78-1) Group 2B possibly carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not listed

Reproductive toxicity Suspected of damaging fertility or the unborn child.

No data available

Specific target organ toxicity

(single exposure)

Specific target organ toxicity No data available (repeated exposure)

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 Not regulated as dangerous goods IATA Not regulated as dangerous goods **IMDG** Not regulated as dangerous goods

SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

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

Chemical nameCAS numberMelamine108-78-1

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® Accidental Release Prevention (40 CFR 68.130)

Not regulated

Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Massachusetts Right-to-Know Act

Chemical name	CAS number
Melamine	108-78-1

New Jersey Worker and Community Right-to-Know Act

Not regulated

Pennsylvania Worker and Community Right-to-Know Act

Chemical name	CAS number	
Melamine	108-78-1	

Rhode Island Right-to-Know Act

Not regulated

SECTION 16: Other Information

NFPA Rating

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

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Issue date:

May 2015

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.