

# 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 Calcium Buffer

Product number R-0010

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 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.

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### 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 <sup>3</sup>
US NIOSH: Pocket Guide to Chemical Hazard	s	
Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>
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/m³

### **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

No data available Viscosity Explosive properties No data available No data available Oxidizing properties

# SECTION 10: Stability and Reactivity

Reactivity May be corrosive to metals.

Stable under recommended handling and storage conditions (refer to section 7 of the SDS). Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

Incompatible materials Strong acids. Strong oxidizing agents. Metals. **Hazardous decomposition** 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 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 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)

Calcium Buffer; R-0010 Page 4 of 7 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	

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# SECTION 16: Other Information

#### NFPA Rating

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

#### **Disclaimer**

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03/11/2022

#### **Revision information:**

Identification: remove obsolete product number.

SDS US