

SAFETY DATA SHEET

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

| Product identifier | Oslaines Duffer | |
|--|--|--|
| Product name | Calcium Buffer | |
| Product number | R-0010; R-0010-PL | |
| Recommended use and restrictions | To be used in accordance with manufact manufacturer. | turer instructions or under the direct guidance of th |
| Manufacturer | Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548 | |
| CTION 2: Hazard(s) identified | cation | |
| Physical hazards | Corrosive to metals | Category 1 |
| Health hazards | Eye damage/irritation | Category 1 |
| | Skin corrosion/irritation | Category 1C |
| Environmental hazards | Not currently regulated by OSHA. For ac | dditional information, refer to section 12 of the SDS |
| Signal word | Danger | |
| Signal word | Danger | |
| Hazard statements | way be conosive to metals. Causes seve | ere skin burns and serious eye damage. |
| Precautionary statements Prevention | | reathe dusts or mists. Wash skin thoroughly after tive clothing/eye protection/face protection if conta |
| Response | vomiting. IF ON SKIN (OR HAIR): Imme with water. Wash contaminated clothing air and keep comfortable for breathing. I IF IN EYES: Rinse cautiously with water | age. IF SWALLOWED: Rinse mouth. Do NOT indu diately take off all contaminated clothing. Rinse sk before reuse. IF INHALED: Remove person to fre mmediately call a physician or poison control cent for several minutes. Remove contact lenses, if g. Immediately call a physician or poison control |
| | | |
| Storage | | |
| Storage Disposal | Store in corrosive-resistant container wit Store out of direct sunlight between 36°F | th corrosive-resistant inner liner. Keep tightly capper F–85°F. Store locked up. ance with local/regional/national/international |

| Common name and synonyms | CAS number | % w/w | |
|--------------------------|------------------|----------------------------|--|
| Dihydrogen oxide | 7732-18-5 | 80-100 | |
| Caustic Soda | 1310-73-2 | 1-5 | |
| | Dihydrogen oxide | Dihydrogen oxide 7732-18-5 | |

SECTION 4: First-aid measures

If inhaled

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

In case of skin contact

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

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. 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 Unsuitable extinguishing media | Use extinguishing media appropriate for surrounding fire. Do not use a heavy water stream. Use of heavy stream of water may spread fire. |
|---|---|
| Specific hazards arising from the s Fire hazard | substance or mixture Not flammable |
| Explosion hazard | Not explosive |
| Reactivity | May be corrosive to metals |
| Hazardous combustion products | Sodium oxides. Other irritating fumes and smoke. |
| Advice for firefighters | |
| Precautionary measures | Exercise caution when fighting any chemical fire; hazardous fumes will be present. |
| Firefighting equipment/instructions | Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | Refer to section 9 of the SDS for flammability properties. |

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

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. Dilute base with water and neutralize with dilute acid. If not recoverable, dilute with water or flush to holding area and neutralize. 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 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 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

US ACGIH Threshold Limit Values

| Туре | Value |
|-----------------------|---|
| Ceiling | 2 mg/m ³ |
| 5 | |
| Туре | Value |
| Ceiling | 2 mg/m ³ |
| ts (29 CFR 1910.1000) | |
| Туре | Value |
| TWA | 2 mg/m ³ |
| | Ceiling Type Ceiling ts (29 CFR 1910.1000) Type |

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 chemical safety goggles if contact is likely to occur. |
| Skin protection | Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur. |
| Body protection | Wear appropriate protective clothing if contact is likely to occur |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers. |

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| Physical state | Liquid |
|---------------------------------------|--------------------------------------|
| Form | Liquid |
| Color | Clear, colorless or nearly colorless |
| Odor | Odorless |
| Odor threshold | No data available |
| рН | 13.1 |
| Evaporation rate | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Initial boiling point (boiling range) | No data available |
| Flash point | No data available |
| Specific gravity | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Upper Flammability Limit | No data available |
| Lower Flammability Limit | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| | |

| Relative density | No data available | |
|--|--|---|
| Solubility | Soluble in all proportions | |
| Partition coefficient (n-octanol/water) | No data available | |
| Viscosity | No data available | |
| Explosive properties | No data available | |
| Oxidizing properties | No data available | |
| CTION 10: Stability and reac | tivity | |
| Reactivity | May be corrosive to metals | |
| Chemical stability | • | ng and storage conditions (refer to section 7 of the SDS) |
| Possibility of hazardous reactions | No dangerous reaction known unde | |
| Conditions to avoid | Contact with incompatible materials | s. Do not use in areas without adequate ventilation. |
| Incompatible materials | Acids, metals, and oxidizing agents | - |
| Hazardous decomposition products | No hazardous decomposition produ | |
| CTION 11: Toxicological info | ormation | |
| Information on toxicological effect | | |
| Likely routes of exposure are sl | kin/eye contact and ingestion. | |
| Most important symptoms/effects, acute and | | osive skin burns, deep ulcerations, and possibly permaner |
| delayed | | lutions may be corrosive to the eyes and may cause seve toms may include stinging, tearing, redness, swelling, and |
| | | |
| | choking, and wheezing. Inhalation c | e respiratory irritation. Symptoms may include coughing, could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. |
| | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. |
| Acute toxicity | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. Ips, oral cavity, upper airway, esophagus, and possibly the ude abdominal pain, vomiting, burns, perforations, and |
| Acute toxicity Product | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. Ips, oral cavity, upper airway, esophagus, and possibly to ude abdominal pain, vomiting, burns, perforations, and |
| | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly to ude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu |
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| Product Calcium Buffer Reagent (CAS Mixt | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly thude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu |
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| Product Calcium Buffer Reagent (CAS Mixt Acute Dermal LD ₅₀ Inhalation | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species ture) | could result in pulmonary edema (fluid accumulation). hest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly the ude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu <u>Acute Toxicity Estimate (ATE)</u> |
| Product Calcium Buffer Reagent (CAS Mixt Acute Dermal LD ₅₀ | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species ture) | could result in pulmonary edema (fluid accumulation). hest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly the ude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu <u>Acute Toxicity Estimate (ATE)</u> |
| Product Calcium Buffer Reagent (CAS Mixt Acute Dermal LD ₅₀ Inhalation | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species ture) | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly to ude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu <u>Acute Toxicity Estimate (ATE)</u> No data available |
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| Product Calcium Buffer Reagent (CAS Mixt Acute Dermal LD ₅₀ Inhalation LC ₅₀ Oral LD ₅₀ Components Sodium hydroxide (CAS 1310-73-2 Acute | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species ture) Rat Rat Rat Species | could result in pulmonary edema (fluid accumulation). hest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly the ude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu <u>Acute Toxicity Estimate (ATE)</u> No data available No data available >2000 mg/kg |
| Product Calcium Buffer Reagent (CAS Mixt Acute Dermal LD ₅₀ Inhalation LC ₅₀ Oral LD ₅₀ Components Sodium hydroxide (CAS 1310-73-2 Acute Dermal | choking, and wheezing. Inhalation of Symptoms of pulmonary edema (ch Ingestion may produce burns to the digestive tract. Symptoms may inclu- bleeding. This product is not classified as an ingredient acute toxicity data. Species ture) Rat Rat Rat Species 2) | could result in pulmonary edema (fluid accumulation). nest pain, shortness of breath) may be delayed. lips, oral cavity, upper airway, esophagus, and possibly thude abdominal pain, vomiting, burns, perforations, and acute toxicity hazard. See below for product and individu Acute Toxicity Estimate (ATE) No data available >2000 mg/kg Acute Toxicity Data |
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| Skin sensitization | No data available |
|---|--|
| Germ cell mutagenicity | No data available |
| Carcinogenicity | |
| IARC Monographs. Overall Ev | aluation of Carcinogenicity |
| Not classifiable | |
| OSHA Specifically Regulated | Substances (29 CFR 1910.1001-1096) |
| Not regulated | |
| US National Toxicology Progr | am (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 infor | mation |
| Ecotoxicity | This product is not classified as environmentally hazardous. |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Other adverse effects | Large or frequent spills can have a harmful or damaging effect on the environment. |
| | |

SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

| DOT | |
|-------------------------|---------------------------|
| UN number | UN1824 |
| UN Proper shipping name | Sodium hydroxide solution |
| Reportable Quantity | 5000 lbs |
| Class (Subsidiary risk) | 8 |
| Label(s) | 8 |
| Packing group | 111 |
| Special provisions | IB3, N34, T4, TP1 |
| Packaging exceptions | 154 |
| Packaging, non-bulk | 203 |
| ΙΑΤΑ | |
| UN number | UN1824 |
| UN Proper shipping name | Sodium hydroxide solution |
| Class (Subsidiary risk) | 8 |
| Packing group | III |
| Special provisions | A803 |
| IMDG | |
| UN number | UN1824 |
| UN Proper shipping name | Sodium hydroxide solution |
| Class (Subsidiary risk) | 8 |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | No |
| Special provisions | 223 |
| | |

EmS

Special precautions for user

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

DOT hazard pictograms



Read safety instructions, SDS, and emergency procedures before handling. This substance/mixture is not intended to be transported in bulk.



IATA; IMDG hazard pictograms

SECTION 15: Regulatory information

| US federal regulations | | |
|--------------------------------|---------------------|---|
| CERCLA Hazardous Substance | e (40 CFR 302.4) | |
| Chemical name | CAS number | Reportable Quantity |
| Sodium Hydroxide | 1310-73-2 | 1000 lbs |
| SARA 302 Extremely Hazardou | is Substance (40 C | CFR 355 Appendices A / B) |
| Not regulated | | |
| SARA 304 Emergency Release | Notification | |
| Not regulated | | |
| SARA 311/312 Hazardous Cher | nical | |
| Chemical name | CAS number | _ |
| Sodium hydroxide | 1310-73-2 | |
| SARA 313 (TRI reporting) | | |
| Not regulated | | |
| TSCA Section 8(b) Chemical In | ventory | |
| All components are on the U.S | 6. EPA TSCA Inven | tory list. |
| TSCA Section 12(b) Export Not | tification (40 CFR | 707, Subpt. D) |
| Not regulated | | |
| Other federal regulations | | |
| Clean Air Act (CAA) Section 11 | 2 Hazardous Air F | Pollutants (HAPs) |
| Not regulated | | |
| Clean Air Act (CAA) Section 11 | 2(r) Accidental Re | elease Prevention (40 CFR 68.130) |
| Not regulated | | |
| Clean Water Act, Toxic and Pri | ority Pollutants (4 | 0 CFR 401.15 and CFR 423, Appendix A) |
| Not regulated | | |
| Safe Drinking Water Act (SDW | A) | |
| Not regulated | | |
| US state regulations | | |
| California Safe Drinking Water | and Toxic Enforce | ement Act of 1986 (California Proposition 65) |
| Not regulated | | |
| Massachusetts Right-to-Know | Act | |
| Not regulated | | |
| New Jersey Worker and Comm | unity Right-to-Kn | ow Act |
| Chemical name | CAS number | _ |
| Sodium hydroxide | 1310-73-2 | |
| Pennsylvania Worker and Com | | now Act |
| Chemical name | CAS number | _ |
| | | |

| Sodium hydroxide | 1310-73-2 |
|-------------------------|------------|
| Rhode Island Right-to-K | now Act |
| Chemical name | CAS number |
| Sodium hydroxide | 1310-73-2 |
| ECTION 16: Other inform | nation |
| NFPA Rating | |
| Health hazard | 2 |
| Fire hazard | 0 |
| Reactivity | 1 |
| Specific | N/A |
| | |

Disclaimer

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Last revisions

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