

# SAFETY DATA SHEET

M5854 - ANSI - EN



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## SODIUM METASILICATE PENTAHYDRATE - UNIFLO® 26

SDS No.: M5854

Rev. Date: 07-Jan-2020

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### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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| <b>Company Identification:</b>             | Occidental Chemical Corporation<br>14555 Dallas Parkway, Suite 400, Dallas, Texas 75254-4300<br>P.O. Box 809050, Dallas, Texas 75380-9050                                    |
| <b>24 Hour Emergency Telephone Number:</b> | 1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186 |
| <b>To Request an SDS:</b>                  | MSDS@oxy.com or 1-972-404-3245   |
| <b>Customer Service:</b>                   | 1-800-752-5151 or 1-972-404-3700   |
| <b>Product Identifier:</b>                 | <b>SODIUM METASILICATE PENTAHYDRATE - UNIFLO® 26</b>   |
| <b>Trade Name:</b>                         | UNIFLO® 26   |
| <b>Synonyms:</b>                           | UNIFLO® 26 - SODIUM METASILICATE PENTAHYDRATE; Pentahydrate Metasilicate; PENTAHYDRATE   |
| <b>Product Use:</b>                        | Cleaner; Detergents / soaps  |

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### SECTION 2. HAZARDS IDENTIFICATION

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**OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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## EMERGENCY OVERVIEW:

**Color:** White to faintly colored  
**Physical State:** Solid  
**Appearance:** Granular, Powder  
**Odor:** Odorless  
**Signal Word:** **DANGER**

**MAJOR HEALTH HAZARDS:** CORROSIVE. CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION.

**PHYSICAL HAZARDS:** CORROSIVE TO METALS. Spilled solutions of sodium metasilicate may pose a slipping hazard.

**PRECAUTIONARY STATEMENTS:** Keep only in original container. Do not breathe dust. Wash skin and contaminated clothing thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye, and face protection. Store in corrosive resistant and NON-ALUMINUM container with a resistant inner liner (NOTE: flammable hydrogen gas may be generated if aluminum container and/or aluminum fittings are used with dissolved material).

**ADDITIONAL HAZARD INFORMATION:** Toxicity may be delayed, and may not be readily visible. Significant exposures must be referred for medical attention immediately. There is no specific antidote. This material is not a crystalline silica, and it does not cause pulmonary silicosis.

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## HAZARD CLASSIFICATION:

|  |   |
|--|---|
| <b>GHS: PHYSICAL HAZARDS:</b>                        | • Category 1 - Corrosive to metals                    |
| <b>GHS: CONTACT HAZARD - SKIN:</b>                   | Category 1B - Causes severe skin burns and eye damage |
| <b>GHS: CONTACT HAZARD - EYE:</b>                    | Category 1 - Causes serious eye damage                |
| <b>GHS: ACUTE TOXICITY - ORAL:</b>                   | Category 4 - Harmful if swallowed                     |
| <b>GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE):</b> | Category 3 - May cause respiratory tract irritation   |

**GHS SYMBOL:** Corrosive, Exclamation mark



**GHS SIGNAL WORD:** **DANGER**

**GHS HAZARD STATEMENTS:**

**GHS - Physical Hazard Statement(s)**

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- May be corrosive to metals

**GHS - Health Hazard Statement(s)**

- Causes severe skin burns and eye damage
- Causes serious eye damage
- Harmful if swallowed
- May cause respiratory irritation

**GHS - Precautionary Statement(s) - Prevention**

- Do not breathe dusts or mists
- Wash skin and contaminated clothing thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Wear protective gloves, protective clothing, eye, and face protection
- Keep only in original container

**GHS - Precautionary Statement(s) - Response**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF EXPOSED (skin): Immediately call a POISON CENTER OR LICENSED HEALTH CARE PROVIDER
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF EXPOSED (eyes): Immediately call a POISON CENTER OR LICENSED HEALTH CARE PROVIDER
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
- Absorb spillage to prevent material damage

**GHS - Precautionary Statement(s) - Storage**

- Store in a secure manner
- Store in a well-ventilated place. Keep container tightly closed
- Store in corrosive resistant container with a resistant inner liner (NOTE: flammable hydrogen gas may be generated if aluminum container and/or aluminum fittings are used with dissolved material)

**GHS - Precautionary Statement(s) - Disposal**

- Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

See Section 11: TOXICOLOGICAL INFORMATION

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component           | CAS Number | Percent [%] |
|---------------------|------------|-------------|
| Sodium Metasilicate | 6834-92-0  | 56-59       |
| Water               | 7732-18-5  | 41-44       |

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**SECTION 4. FIRST AID MEASURES**

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**INHALATION:** If inhalation of this material occurs and adverse effects result, move person to fresh air and keep comfortable for breathing. Call a Poison Center or seek medical attention if you feel unwell.

**SKIN CONTACT:** Immediately brush off excess chemical and flush contaminated areas with plenty of water. Immediately remove all contaminated clothing, jewelry, and shoes. Rinse skin with large amounts of water/shower. Immediately contact a poison center, physician, or get medical attention. **SPECIFIC TREATMENT:** Wash with lots of water. Discard contaminated leather goods. Wash contaminated clothing before reuse.

**EYE CONTACT:** If in eyes, immediately rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**INGESTION:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Contact a Poison Center, or a doctor/physician, or get medical attention if you feel unwell.

**Most Important Symptoms/Effects (Acute and Delayed):**

Solutions of sodium metasilicate are alkaline. Depending on the concentration, duration, and nature of the exposure, exposure to alkaline solutions may result in irritation to possible burns to any contacted tissue. This material is not a crystalline silica, and it does not cause pulmonary silicosis.

**Acute Symptoms/Effects:**

**Inhalation (Breathing):** Respiratory System Effects: Inhalation exposure may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. Severe and permanent scarring may occur. The pulmonary edema may develop several hours after a severe acute exposure.

**Skin:** Skin Corrosion. Skin exposure may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

**Eye:** Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye. The full extent of the injury may not be immediately apparent.

**Ingestion (Swallowing):** Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

**Delayed Symptoms/Effects:**

Repeated and prolonged skin contact may cause a dermatitis.

**Protection of First-Aiders:** Avoid contact with skin and eyes. Do not breathe dust. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

**Notes to Physician:** Treat as a corrosive substance. Treat symptoms with supportive care. There is no specific antidote. The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. It may take 48-72 hours to assess the extent of an ocular burn. Probable mucosal damage may contraindicate the use of gastric lavage.

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**Interaction with Other Chemicals Which Enhance Toxicity:** None known.

**Medical Conditions Aggravated by Exposure:** May aggravate preexisting conditions such as: Eye disorders that decrease tear production or have reduced integrity. Skin disorders that compromise the integrity of the skin such as: psoriasis, rashes, eczema, skin infections. Pulmonary disorders that compromise the integrity of the lungs such as asthma.

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## SECTION 5. FIRE-FIGHTING MEASURES

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**Fire Hazard:** Negligible fire hazard.

**Extinguishing Media:** Use media appropriate for surrounding fire.

**Advice for Firefighters:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**Sensitivity to Mechanical Impact:** Not sensitive.

**Sensitivity to Static Discharge:** Not sensitive.

**Lower Flammability Level (air):** Not flammable

**Upper Flammability Level (air):** Not flammable

**Flash point:** Not flammable

**Auto-ignition Temperature:** No information available

**GHS: PHYSICAL HAZARDS:**  
- Category 1 - Corrosive to metals

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Do not get in eyes, on skin or on clothing. Avoid breathing dust. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Wet material may pose a slipping hazard. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

**Environmental Precautions:** This material is alkaline and may raise the pH of surface waters with low buffering capacity. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

**Methods and Materials for Containment, Confinement, and/or Abatement:** Shovel dry material into suitable container. Vacuum any remaining material into a suitable container. Flush spill area with water, if appropriate.

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Liquid material may be removed with a vacuum truck. Wet material is slippery under foot.

**SECTION 7. HANDLING AND STORAGE****Handling:**

**Precautions for Safe Handling:** Do not get in eyes, on skin, or on clothing. Avoid creation of dust. Avoid breathing dust. Do not eat, drink or smoke in areas where this material is used. Wash thoroughly after handling. Wet material may pose a slipping hazard. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.

**Storage:**

**Safe Storage Conditions:** Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store dissolved material in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

**Incompatible Substances:** Can generate heat when mixed with acids, When wet avoid prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc because flammable hydrogen gas can be generated.

**Additional Information:****GHS: PHYSICAL HAZARDS:**

- Category 1 - Corrosive to metals

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION****REGULATORY EXPOSURE LIMIT(S):**

This product does not contain any components that have regulatory occupational exposure limits (OELs) established.

**NON-REGULATORY EXPOSURE LIMIT(S):**

This product does not contain any components that have advisory (non-regulatory) occupational exposure limits (OEL's); however, the manufacturer has established internal Recommended Exposure Level(s) [REL(s)] as noted below.

Recommended Exposure Limits (REL's) are non-regulatory occupational exposure limits that the manufacturer has established based on health effects data.

|   |   |
|---|---|
| <b>Manufacturer [OXY]<br/>Recommended Exposure Limit<br/>(REL):</b> | 3 mg/m <sup>3</sup> = REL ceiling (internal Occupation Exposure Limit based on data from analogous chemicals) |
|---|---|

Listed below for the product components that have non-regulatory occupational exposure limits (OELs)

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where dust or mist may be generated. Ensure

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compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles. Wear chemical safety goggles and/or a face-shield to protect against skin and eye contact when appropriate. When wet mixing, wear safety goggles with a face-shield. Provide an emergency eyewash fountain and quick drench shower in the immediate work area.

**Skin and Body Protection:** Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem® or similar chemical protective suit. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®.

**Hand Protection:** Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

**Protective Material Types:** Butyl rubber, Natural rubber, Neoprene, Nitrile, Tychem®, Tyvek®

**Respiratory Protection:** A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |  |
|---|--|
| <b>Physical State:</b>                              | Solid  |
| <b>Color:</b>                                       | White to faintly colored                             |
| <b>Odor:</b>  | Odorless   |
| <b>Molecular Formula:</b>                           | Na <sub>2</sub> SiO <sub>3</sub> x 5H <sub>2</sub> O |
| <b>pH:</b>  | 12.4 (1% aqueous solution)                           |
| <b>Melting Point/Range:</b>                         | 162 °F   |
| <b>Freezing Point/Range:</b>                        | Not applicable to solids                             |
| <b>Flash point:</b>                                 | Not flammable  |
| <b>Explosion limits:</b>                            | Not applicable                                       |
| <b>Vapor Pressure:</b>                              | Not applicable                                       |
| <b>Vapor Density (air=1):</b>                       | Not applicable                                       |
| <b>Relative Density/Specific Gravity (water=1):</b> | Not applicable                                       |
| <b>Bulk Density:</b>                                | 54 - 70 lbs/ft <sup>3</sup> (loose)                  |
| <b>Water Solubility:</b>                            | 28% @ 20 °C  |
| <b>Partition Coefficient (n-octanol/water):</b>     | No data available                                    |
| <b>Auto-ignition Temperature:</b>                   | No information available                             |
| <b>Decomposition Temperature:</b>                   | No information available                             |
| <b>Odor Threshold [ppm]:</b>                        | No data available                                    |
| <b>Evaporation Rate (ether=1):</b>                  | Not applicable                                       |
| <b>Volatility:</b>                                  | Not applicable                                       |

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|  |                |
|--|----------------|
| <b>Flammability (solid, gas):</b>      | Not flammable  |
| <b>Flammability Limits in Air:</b>     | Not applicable |
| <b>Lower Flammability Level (air):</b> | Not flammable  |
| <b>Upper Flammability Level (air):</b> | Not flammable  |
| <b>Viscosity:</b>                      | Not applicable |

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## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal temperatures and pressures.

**Reactivity:** Not reactive under normal temperatures and pressures.

**Possibility of Hazardous Reactions:** Contact with acids will cause evolution of heat. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces. When wet, may react with alkali sensitive metals to form flammable hydrogen gas.

**Conditions to Avoid (e.g., static discharge, shock, or vibration):** (e.g., static discharge, shock, or vibration):. None known.

**Incompatible Substances:** Can generate heat when mixed with acids; When wet avoid prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc because flammable hydrogen gas can be generated

**Hazardous Decomposition Products:** None known.

**Hazardous Polymerization:** Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

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### POTENTIAL HEALTH EFFECTS:

#### ACUTE TOXICITY:

**Eye contact:** Causes serious eye damage. May cause severe irritation, pain and corneal burns (possibly leading to blindness). The full extent of the injury may not be immediately apparent.

**Skin contact:** Causes severe skin burns. May cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

**Inhalation:** May cause irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. Upon contact with moist mucous membranes, sodium metasilicate is highly alkaline and may cause corrosive damage.

**Ingestion:** Harmful if swallowed. May cause immediate pain and severe burns of the upper and lower gastrointestinal tract with vomiting, nausea, and diarrhea.

#### CHRONIC TOXICITY:

**Chronic Effects:** Repeated or prolonged skin contact may result in dermatitis.

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**SIGNS AND SYMPTOMS OF EXPOSURE:**

Solutions of sodium metasilicate are alkaline. Exposure to alkaline solutions may result in irritation to any contacted tissue, including possible burns, depending on the concentration, duration, and nature of the exposure. This material is not a crystalline silica, and it does not cause pulmonary silicosis.

**Inhalation (Breathing):** Respiratory System Effects: Inhalation exposure may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. Severe and permanent scarring may occur. The pulmonary edema may develop several hours after a severe acute exposure.

**Skin:** Skin Corrosion. Skin exposure may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

**Eye:** Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye. The full extent of the injury may not be immediately apparent.

**Ingestion (Swallowing):** Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

**Interaction with Other Chemicals Which Enhance Toxicity:** None known.

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**GHS HEALTH HAZARDS:**

**GHS: CONTACT HAZARD - SKIN:** Category 1B - Causes severe skin burns and eye damage

**GHS: CONTACT HAZARD - EYE:** Category 1 - Causes serious eye damage

**GHS: ACUTE TOXICITY - ORAL:** Category 4 - Harmful if swallowed

**GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE):** Category 3 - May cause respiratory tract irritation

**TOXICITY DATA:**

The test material for the toxicological studies was sodium metasilicate.

|                                       |  |  |
|---------------------------------------|--|--|
| <b>LD50 Oral:</b><br>1280 mg/kg (Rat) | <b>LD50 Dermal:</b><br>No data available | <b>LC50 Inhalation:</b><br>No data available |
|---------------------------------------|--|--|

The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

| Component                        | LD50 Oral:       | LD50 Dermal:             | LC50 Inhalation:         |
|----------------------------------|------------------|--------------------------|--------------------------|
| Sodium Metasilicate<br>6834-92-0 | 1153 mg/kg (Rat) | No information available | No information available |

**!!!IRRITATION DATA:** As listed below

**Standard Draize (Skin):** SODIUM METASILICATE: 250 mg/24 hour(s) skin-human severe; 250 mg/24 hour(s) skin-rabbit severe; 250 mg/24 hour(s) skin-guinea pig moderate

**Skin Absorbent / Dermal Route:** NO.

**!!!RESPIRATORY OR SKIN SENSITIZATION:** The product is not classified as sensitizing according to GHS criteria.

**CARCINOGENICITY:** Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC or OSHA.

**!!!CARCINOGENICITY COMMENT:** No reliable data available. Disodium metasilicate does not carry any structural alerts for carcinogenicity. This product is not classified as a carcinogen by NTP, IARC or OSHA. Not classified as a carcinogen per GHS criteria.

**SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):** Category 3 - Respiratory tract irritation.

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**!!!MUTAGENICITY:** Not classified as a mutagen per GHS criteria. In assays using Bacillus subtilis strains without metabolic activation, sodium metasilicate (0.005-0.5 M) was not genotoxic.

**REPRODUCTIVE TOXICITY:** The available data on toxicity for reproduction are limited. The substance is not classified as toxic for reproduction, according to GHS.

**TOXICOKINETICS:** Not available.

**METABOLISM:** Not available.

**ENDOCRINE DISRUPTOR:** Not available.

**NEUROTOXICITY:** Not Available.

**IMMUNOTOXICITY:** Not available.

**SECTION 12. ECOLOGICAL INFORMATION****ECOTOXICITY (EC, IC, AN LC):**

| Component:          | Freshwater Fish:   | Invertebrate Toxicity:            | Algae Toxicity:   | Other Toxicity:   |
|---------------------|--|-----------------------------------|-------------------|-------------------|
| Sodium Metasilicate | *LC50 Brachydanio rerio: 210 mg/L 96h<br>*LC50 Brachydanio rerio: 210 mg/L 96h semi-static | *EC50 Daphnia magna: 216 mg/L 96h | No data available | No data available |

**Aquatic Toxicity:**

This material has exhibited moderate toxicity to aquatic organisms.

**FATE AND TRANSPORT:**

**PERSISTENCE:** This material is believed to persist in the environment.

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation.

**BIOCONCENTRATION:** This material is not expected to bioconcentrate in organisms.

**BIOACCUMULATIVE POTENTIAL:** Toxicokinetic data on vertebrates revealed a low potential for bioaccumulation.

**MOBILITY IN SOIL:** No data available.

**ADDITIONAL ECOLOGICAL INFORMATION:** This material has exhibited slight toxicity to terrestrial organisms.

**SECTION 13. DISPOSAL CONSIDERATIONS**

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**Waste from material:**

Reuse or recycle if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations.

**Container Management:**

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

**SECTION 14. TRANSPORT INFORMATION****LAND TRANSPORT****U.S. DOT 49 CFR 172.101:**

**UN NUMBER:** UN3253  
**PROPER SHIPPING NAME:** Disodium trioxosilicate  
**HAZARD CLASS/ DIVISION:** 8  
**PACKING GROUP:** III  
**LABELING REQUIREMENTS:** 8

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**UN NUMBER:** UN3253  
**SHIPPING NAME:** Disodium trioxosilicate  
**CLASS OR DIVISION:** 8  
**PACKING/RISK GROUP:** III  
**LABELING REQUIREMENTS:** 8

**MARITIME TRANSPORT (IMO / IMDG)**

**UN NUMBER:** UN3253  
**PROPER SHIPPING NAME:** Disodium trioxosilicate  
**HAZARD CLASS / DIVISION:** 8  
**Packing Group:** III  
**LABELING REQUIREMENTS:** 8

**AIR TRANSPORT (ICAO / IATA)**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** The product is not listed in annex II to the Marpol 73/78 Convention and IBC Code.

**SECTION 15. REGULATORY INFORMATION****U.S. REGULATIONS**

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**OSHA REGULATORY STATUS:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):**

Not regulated.

**SARA EHS Chemical (40 CFR 355.30)**

Not regulated.

**EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):**

Acute Health Hazard

**SARA HAZARD CATEGORIES ALIGNED WITH GHS (2018):**

Physical Hazard - Corrosive to Metal

Health Hazard - Acute Toxin (any route of exposure)

Health Hazard - Skin Corrosion or Irritation

Health Hazard - Serious eye damage or eye irritation

Health Hazard - Specific Target Organ Toxicity (STOT) Single Exposure (SE)

**EPCRA SECTION 313 (40 CFR 372.65):**

Not regulated.

**DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):**

No components in this material are regulated under DHS

**OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):**

Not regulated.

**FDA:** Sodium Silicates have Generally Recognized as Safe (GRAS) status under specific FDA regulations. Refer to 21 Code of Federal Regulations (CFR) 173, 175, 176, 177, 182, and 184, which is accessible on the FDA's website. This product is not produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the Food and Drug Administration (FDA). While OxyChem's Liquid Sodium Silicate and Sodium Metasilicate products (all grades) meet all requirements specified by the FDA, OxyChem does not represent or warrant general compliance of these products for food uses. It is the responsibility of the user to carefully assess regulations for each prospective use of a product in direct or indirect food applications.

**EPA'S CLEAN WATER AND CLEAN AIR ACTS:**

Component(s) not listed on impacted regulatory lists.

**NATIONAL INVENTORY STATUS**

**U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or exempt.

| Component                        | TSCA Inventory | TSCA ACTIVE LIST | TSCA 12(b) | TSCA - Section 4 | TSCA - Section 5 | TSCA - Section 6 | TSCA - Section 8 |
|----------------------------------|----------------|------------------|------------|------------------|------------------|------------------|------------------|
| Sodium Metasilicate<br>6834-92-0 | Listed         | ACTIVE           | Not Listed | Not listed       | Not Listed       | Not listed       | Not listed       |

**TSCA 12(b):** This component is not subject to export notification.

**CANADIAN CHEMICAL INVENTORY:** All components of this product are listed on either the DSL or the NDSL.

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| Component                                    | DSL    | NDSL       |
|--|--------|------------|
| Sodium Metasilicate<br>6834-92-0 ( 56 - 59 ) | Listed | Not Listed |

**STATE REGULATIONS****California Proposition 65:**

This product and its ingredients are not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact OxyChem Customer Relations.

| Component           | California Proposition 65 Cancer WARNING: | California Proposition 65 CRT List - Male reproductive toxin: | California Proposition 65 CRT List - Female reproductive toxin: | Massachusetts Right to Know Hazardous Substance List | Rhode Island Right to Know Hazardous Substance List |
|---------------------|---|---|---|--|---|
| Sodium Metasilicate | Not Listed                                | Not Listed  | Not Listed  | Not Listed   | Not listed  |

| Component           | New Jersey Right to Know Hazardous Substance List | New Jersey Special Health Hazards Substance List | New Jersey - Environmental Hazardous Substance List | Pennsylvania Right to Know Hazardous Substance List | Pennsylvania Right to Know Special Hazardous Substances | Pennsylvania Right to Know Special Hazardous Substances | Pennsylvania Right to Know Environmental Hazard List |
|---------------------|---|--|---|---|---|---|--|
| Sodium Metasilicate | Not Listed  | Not Listed                                       | Not Listed  | Not Listed  | Not Listed  | Not Listed  | Not Listed   |

**CANADIAN REGULATIONS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

| Component                                    | Canada - CEPA - Schedule I - List of Toxic Substances | Canada - NPRI | Canada - CEPA - 2010 Greenhouse Gases (GHG) Subject to Mandatory Reporting | CANADIAN CHEMICAL INVENTORY: | NDSL:      |
|--|---|---------------|--|------------------------------|------------|
| Sodium Metasilicate<br>6834-92-0 ( 56 - 59 ) | Not listed  | Not Listed    | Not Listed   | Listed                       | Not Listed |

**SECTION 16. OTHER INFORMATION**

**Prepared by:** OxyChem Corporate HESS - Product Stewardship

**Rev. Date:** 07-Jan-2020

**Reason for Revision:**

- Change of company physical address: SEE SECTION 1
- Added or revised Physical Hazards: SEE SECTION 2
- Added or revised Precautionary Statements: SEE SECTION 2
- Modified GHS Hazard and Precautionary Statements: SEE SECTION 2
- Updated First Aid Measures: SEE SECTION 4
- Modified Exposure Limit information: SEE SECTION 8
- Updated Physical and Chemical Properties. SEE SECTION 9

## SODIUM METASILICATE PENTAHYDRATE - UNIFLO® 26

SDS No.: M5854

Rev. Date: 07-Jan-2020

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- Toxicological Information has been revised: SEE SECTION 11
- Ecological Information has been modified: SEE SECTION 12
- Added SARA Hazard Categories Aligned with GHS (2018): SEE SECTION 15
- Added LOLI tables such as EPA'S Clean Water / Air Act, TSCA status, DHS, PSM, EPCRA, CERCLA, Federal Canadian: SEE SECTION 15
- Added Department of Homeland Security Anti-Terrorism Information: SEE SECTION 15
- WHMIS Classifications were removed from format: SEE SECTION 15
- Updated TSCA Status Table: SEE SECTION 15
- State Regulation changes: SEE SECTION 15
- Removed non-harmonized hazard ratings (NFPA/HMIS) from format (harmonized GHS hazard classifications and hazard symbols / signal word are found in Section 2): SEE SECTION 16

### IMPORTANT:

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

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**End of Safety Data Sheet**