

**SAFETY DATA SHEET**

**1. Identification**

**Product Name:** Storage Solution™ - Dry / Solution de remisage<sup>MC</sup> - Sèche

**CAS:** 7631-90-5

**Synonyms:** N/A

**Product Use:** Reverse Osmosis Membrane Preservative

**Manufacturer/Supplier:** H2O Innovation Inc.

**Address:** 201, 1re Avenue, Ham-Nord, Qc G0P 1A0, Canada

**General information:** 819-344-2288

**Transportation Emergency Number:**

**CHEMTREC: 800-424-9300 (Domestic North America) OR 703-527-3887 (International, collect calls accepted)**

**2. Hazard Identification**

**Classification:**

Health	Environmental	Physical
Eye Corrosive - Category 1	Accute Aquatic - Category 3	

**Pictograms:**



<p><b>Hazard Statements</b></p> <p><b>DANGER</b>            Causes serious eye damage</p>	<p><b>Precautionary Statements</b></p> <p>Wear eye protection/face protection.            If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.            Immediately call a poison or physician.</p>
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**3. Composition / Information on Ingredients**

The specific chemical identities and exact percentages of composition have been withheld as a trade secret.

See Section 8 for Exposure Limits.

## 4. First Aid Measures

**Eye:** Eye irritation. Flush immediately with large amounts of water for at least 30 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

**Skin:** Itching or irritation of the skin. Immediately flush the skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Do not remove clothing if it sticks to skin. Use alkaline soap if available. Wash contaminated clothing before reuse.

**Inhalation:** For nasal irritation, remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Give large quantities of milk and water. Never give anything by mouth to an unconscious person. Call a physician immediately.

## 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Use media appropriate to primary cause of fire. Use water to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

**Fire Fighting Procedures:** Use water spray to cool containers exposed to fire. Minimize exposure. Do not breathe fumes. Contain run-off. A respirator that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements should be worn if conditions warrant the use of a respirator.

**Unusual Fire and Explosion Hazards:** None known

**Combustion Products:** Will emit toxic gases, form Sulphur and sodium oxides upon thermal decomposition.

## 6. Accidental Release Measures

**Personal Protective Equipment:** Protective clothing including chemical splash goggles, Latex, nitrile, or butyl rubber full-length gloves, rubber apron made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of material. If this material comes into contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin with soap and water. See section 4, First Aid Measures, for further information.

**Land Spill:** Wearing recommended protective clothing and equipment, dike spill with soil, sand, or compatible commercial absorbent. Remove remaining liquid with a pump, vacuum truck, or absorb liquid in sand or commercial absorbent. Place waste in approved containers for disposal. Dispose waste according to Federal, State, and local regulations.

**Water Spill:** Wear protective clothing and equipment. Stop flow. Dike contaminated water and remove for disposal and/or treatment. Notify proper authorities and all downstream users if possible. Dispose of Solid Waste according to Federal, State, and Local Regulations.

## 7. Handling and Storage

**Handling:** Do not get in eyes, on skin or on clothing. Do not breathe dust or mists. Keep container closed. Use only with adequate ventilation. Use good hygiene practices. Wash hands before eating, drinking or smoking. Remove contaminated clothing and clean before re-use.

**Storage Conditions:** Store in tightly closed containers in cool, dry, well-ventilated area away from incompatibles. The maximum storage temperature for this material is 55°C/131°F. The minimum storage temperature for this material is 0°C/32°F. Do not store this material in containers made of steel.

## 8. Exposure Controls / Personal Protection

### Exposure limits

Component	OSHA PEL (TWA)	Cal-OSHA (8-hour, TWA, STEL, ceiling)	ACGIH TVL (ceiling)
Sodium Metabisulfite	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>

**Engineering Controls:** Use local exhaust ventilation at the point of dust or mist evolution. Have safety shower and eye wash station available where exposure can occur.

### Personal Protective Equipment (PPE)

**Respiratory Protection:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator use. Use air purifying respirators within use limitations associated with the equipment or else use supplied air-respirators. If air-purifying respirator use is appropriate, use a respirator with organic/acid gas cartridge and dust/mist prefilters. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air supplied respirator. Warning air purifying respirators do not protect workers in oxygen deficient atmospheres.

**Eye Protection:** Splash goggles and/or face shield (ANSI Z87.1 or approved equivalent).

**Skin Protection:** Wear impervious protective clothing. Use butyl (or Teflon for limited contact) gloves, boots, and coveralls. Remove gloves after use. Wash hands with soap and water.

## 9. Physical and Chemical Properties

Appearance: Clear to yellowish colored liquid

Odor: Mild (sulfur dioxide)

Density: Approximately 8.34 – 9 lbs./gallon

Specific Gravity: 1 – 1.1

Percentage Volatile: < 95% Water - Max

Evaporation Rate: Same as water

pH of Solution: 3.5 – 5

Water Solubility: Complete

Boiling Point: 100°C (212°F)  
Melting/Freezing Point: 0°C (32°F)  
Vapor Pressure: 17mm Hg @ 20°C (68°F)  
Vapor Density: Same as air  
Auto-ignition Temperature: N/A  
Flash point: N/A  
Flammability: N/A  
Flammable Limits:  
LEL (Lower Explosive Limits): N/A  
UEL (Upper Explosive Limits): N/A

## 10. Stability and Reactivity

**Stability/Incompatibility:** Incompatible with strong acids and oxidizing agents. Stable under normal storage conditions; see Section 7 (Handling and Storage) for specific conditions.

**Hazardous Reactions/Decomposition Products:** Will emit toxic gases, form Sulphur and sodium oxides upon thermal decomposition.

## 11. Toxicological Information

### Acute Toxicity Information

#### Storage Solution:

Oral (LD50) Rat – 4,936 mg/kg

Dermal (LD50) Rat – > 2,000 mg/kg

**Signs and Symptoms of Overexposure:** Eye and nasal irritation, headache, dizziness, nausea, vomiting, difficulty breathing, weakness, itching or burning of the skin.

**Acute Affects:** Harmful if swallowed.

**Eye Contact:** May cause serious or permanent eye damage.

**Skin Contact:** May cause severe burns and/or reddening.

**Inhalation:** May cause severe respiratory irritation.

**Ingestion:** May cause burns to the gastric/intestinal mucosa.

**Chronic Effects:** None known

**Medical Conditions Aggravated by Exposure:** None known

## 12. Ecological Information

LC50 (Rainbow Trout) = 150 mg/L / 96hr

EC50 (Water Flea) = 89 mg/L / 24hr

Bioaccumulation potential has not been examined. Avoid release into environment.

## 13. Disposal Considerations:

Dispose of in accordance with Federal, State, and Local regulations and permits. Refer to state and local requirements for any additional requirements, as these may be different from Federal laws and regulations. Chemical additions, processing, or otherwise altering this material may make management information presented in the SDS incomplete, inaccurate or otherwise inappropriate.

## 14. Transportation Information

### U.S. Department of Transportation (DOT)

Proper Shipping Name: Bisulfites, Aqueous Solutions, N.O.S., (Sodium Bisulfite)

Hazard Class: 8

Hazardous Ingredients: Sodium Bisulfite

UN/NA Number: 2693

Packing Group: III

Labels Required: Corrosive liquid

### International Maritime Organization (IMDG)

Proper Shipping Name: Bisulfites, Aqueous Solutions, N.O.S., (Sodium Bisulfite)

Hazard Class: 8

Hazardous Ingredients: Sodium Bisulfite

UN/NA Number: 2693

Packing Group: III

Labels Required: Corrosive liquid

## 15. Regulatory Information

### U.S. Federal Regulations

#### **Comprehensive Environmental Response and Liability Act of 1980 (CERCLA)**

The reportable quantity for this material is 5,000 (lbs). If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substances Control Act (TSCA):** All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**Clean Water Act (CWA):** Storage Solution is not a hazardous substance under the Clean Water Act. Consult Federal, State and local regulations for specific requirements.

**Clean Air Act (CAA):** Storage Solution is not a hazardous substance under the Clean Air Act. Consult Federal, State and local regulations for specific requirements.

#### **Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

SARA Section 313 Notification (40CFR 372)

This Product Does Not Contain Toxic Chemicals Subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### **State Regulations**

California Prop. 65 Components

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

#### **International Regulations**

**Canadian Environmental Protection Act:** All of the components of this product are included on the Canadian Domestic Substances list (DSL).

**Canadian Workplace Hazardous Materials Information System (WHMIS):**



E=Corrosive

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.

**European Inventory of Existing Chemicals (EINECS):** All of the components of this product are included on EINECS.

#### **EU Classification:**

##### **EU Risk (R) and Safety (S) Phrases:**

R36/37/38: Irritating to eyes, respiratory system and skin.

R41: Risk of serious damage to eyes.

S9: Keep container in a well-ventilated place.

S24/25: Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (Section 4)

S57: Use appropriate container to avoid environmental contamination.

## **16. Other Information**

**Revision Date:** January 8th, 2021

**Disclaimer:** This SDS is provided as an information resource only. This document should not be taken as a warranty for which H2o innovation Inc. assumes legal responsibility. The information contained within this SDS was provided by raw materials and other reliable sources. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.