

MSDS

SYNTHETIC SEA WATER, OCEAN WATER SUBSTITUTE

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 8363, O-100, S082200, SS082200	
Product Identity: SYNTHETIC SEA WATER, OCEAN WATER SUBSTITUTE	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZQ2	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 8/4/00	Revision: 4 Last Revised: 12/22/2011 Date Printed: 01/25/2015 2:14:07 pm

Section 2. Composition/Information on Ingredients

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Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Strontium Chloride Hexahydrate	10025-70-4	< 0.01% (w/v)	Not Available Not Available	Not Available Not Available
Calcium Chloride Dihydrate	10035-04-8	< 0.2% (w/v)	Not Available Not Available	Not Available Not Available
Boric Acid	10043-35-3	< 0.01% (w/v)	Not Available Not Available	Not Available Not Available
Sodium Hydroxide	1310-73-2	< 0.1% (w/v)	Not Available C 2 mg/m3	Not Available 2 mg/m3
Sodium Bicarbonate	144-55-8	< 0.1% (w/v)	Not Available Not Available	Not Available Not Available
Potassium Chloride	7447-40-7	< 0.1% (w/v)	Not Available Not Available	Not Available Not Available
Sodium Chloride	7647-14-5	2 - 3% (w/v)	Not Available Not Available	Not Available Not Available
Sodium Fluoride	7681-49-4	< 0.01% (w/v)	Not Available 2.5 mg/m3	Not Available 2.5 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available
Sodium Sulfate	7757-82-6	< 0.5% (w/v)	Not Available Not Available	Not Available Not Available
Potassium Bromide	7758-02-3	< 0.02% (w/v)	Not Available Not Available	Not Available Not Available
Magnesium Chloride Hexahydrate	7791-18-6	1.0 - 1.3% (w/v)	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: May cause mild irritation to the skin and eyes. Wash areas of contact with soap and water. Does not present any significant health hazards.

Target Organs: eyes, skin.

Eye Contact: May cause slight irritation.

Inhalation: Not likely to be hazardous by inhalation.

Skin Contact: May cause slight irritation.

Ingestion: Large doses may cause stomach upset. Symptoms may include nausea, vomiting and diarrhea.

Chronic Effects/Carcinogenicity: None

IARC - Sodium Fluoride is unclassifiable as to carcinogenicity to humans. Sodium Fluoride is unclassifiable as to carcinogenicity to humans.

NTP - No.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Bicarbonate. Reproductive effects cited in 'Registry of Toxic Effects of Chemical

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Calcium Chloride Dihydrate. Mutation data cited in 'Registry of Toxic Effects of Chemical

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

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Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

LFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Method Used: Not Available.

UFL: Not Available.

Section 6: Accidental Release Measures

Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1

pH: 8.20 - 8.25

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Strong oxidizing agents, lithium, bromine Trifluoride.

Hazardous Decomposition Products: Oxides of Nitrogen, Sodium, Magnesium, Strontium and Potassium may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: (Boric Acid) 2660 mg/kg, (Magnesium Chloride Hexahydrate) 8100 mg/kg, (Potassium Chloride) 2600 mg/kg, (Potassium Nitrate) 3750 mg/kg, (Sodium Bicarbonate) 4220 mg/kg, (Sodium Chloride) 3000 mg/kg, (Sodium Fluoride) 52 mg/kg, (Strontium Chloride) 2250 mg/kg, details of toxic effects not reported other than lethal dose value; (Potassium Bromide) 3070 mg/kg, behavioral and sense organ effects noted.

Section 12. Ecological Information

Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.

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Section 13. Disposal Considerations

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status:The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status:All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances:Not Applicable.

Section 311/312 Hazardous Categories:No

Section 313 Toxic Chemicals:Not Applicable.

California: None Reported.

Pennsylvania: Sodium Fluoride is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Sulfate is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Fluoride is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Sulfate is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Sodium Fluoride - 1,000 pounds. Sodium Hydroxide - 1,000 pounds. Sodium Fluoride - 1,000 pounds. Sodium Hydroxide - 1,000 pounds.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:

Health: 0

Flammability: 0

Reactivity: 0

Special Notice Key:None

HMIS Ratings:

Health: 0

Flammability: 0

Reactivity: 0

Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 10-09-2001: Reformatted to electronic data format.

Rev 2, 09-19-2002: (Section 1) added Solutions Plus brand catalog number S082200.

Rev 3, 10-03-2005: (Section 1) added Ocean Water Substitute to title.

Rev 4, 12-22-2011: Reviewed and approved for distribution.



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For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

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When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.