



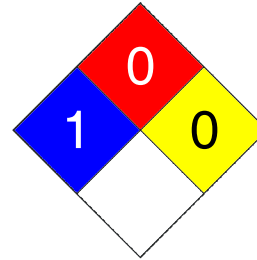
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Salt Water Magic Maintenance  
**CAS #** Mixture  
**Product use** Monthly maintenance mixture to optimize chlorine generator performance  
**Manufacturer** Natural Chemistry, Inc.  
40 Richards Ave.  
Norwalk, CT 06854 US  
Phone: (800) 753-1233  
Emergency Phone: CHEMTREC (800) 424-9300

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 1
Flammability	0
Physical Hazard	0
Personal Protection	C



## 2. Hazards Identification

**Emergency overview** WARNING  
EYE AND SKIN IRRITANT.  
Contains potential reproductive toxins. May cause chronic toxic effects.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** May cause irritation.

**Skin** Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis.

**Inhalation** Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

**Ingestion** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Target organs** Kidney. Liver. Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated overexposure can cause liver and kidney damage. Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Boric acid	10043-35-3	1 - 5
Disodium salt of ethylenediaminetetraacetic acid	6381-92-6	1 - 5
Sodium tetraborate pentahydrate	12179-04-3	1 - 5

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 20 minutes. Obtain medical attention immediately.

**Skin contact** Brush away excess of dry material. Flush with water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**Notes to physician**

Symptoms may be delayed.

**General advice**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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**Flammable properties**

Not flammable by WHMIS/OSHA criteria.

**Extinguishing media****Suitable extinguishing media**

Treat for surrounding material.

**Unsuitable extinguishing media**

Not available

**Protection of firefighters****Specific hazards arising from the chemical**

Not available

**Protective equipment for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of boron.

**Explosion data****Sensitivity to mechanical impact**

Not available

**Sensitivity to static discharge**

Not expected to be sensitive to static discharge.

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## 6. Accidental Release Measures

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**Personal precautions**

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Methods for containment**

Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

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## 7. Handling and Storage

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**Handling**

Use good industrial hygiene practices in handling this material.

**Storage**

Keep out of reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Boric acid	<b>ACGIH-TLV</b> TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established
Disodium salt of ethylenediaminetetraacetic acid	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium tetraborate pentahydrate	<b>ACGIH-TLV</b> TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

### Personal protective equipment

#### Eye / face protection

Chemical splash goggles.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code. Rubber apron recommended.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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Appearance	Powder
Color	White to Light blue
Form	Solid.
Odor	Odorless
Odor threshold	Not available
Physical state	Solid
pH	7.4 - 7.8
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Pour point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H <sub>2</sub> O)	Not available
Auto-ignition temperature	Not available

VOC (Weight %)	Not available
Viscosity	Not applicable
Percent volatile	Not available
Molecular formula	Mixture

## 10. Stability and Reactivity

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of boron.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Boric acid	3450 mg/kg mouse
Disodium salt of ethylenediaminetetraacetic acid	Not available
Sodium tetraborate pentahydrate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Boric acid	2660 mg/kg rat
Disodium salt of ethylenediaminetetraacetic acid	2000 mg/kg rat
Sodium tetraborate pentahydrate	3400 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	May cause irritation.
<b>Skin</b>	Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
<b>Ingestion</b>	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Chronic effects</b>	Prolonged or repeated overexposure can cause liver and kidney damage.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.

#### ACGIH - Threshold Limit Values - Carcinogens

Boric acid	10043-35-3	A4 - Not Classifiable as a Human Carcinogen
Sodium tetraborate pentahydrate	12179-04-3	A4 - Not Classifiable as a Human Carcinogen

<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Borates may cause harmful reproductive effects based on animal data. Boric acid may cause developmental changes based on published data, at doses many times in excess of those that could occur through inhalation of dust in occupational settings.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Synergistic Materials</b>	Not available

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns.
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#### Ecotoxicity - Freshwater Fish Species Data

Boric acid	10043-35-3	72 Hr LC50 Carassius auratus: 1020 mg/L [flow-through]
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#### Ecotoxicity - Water Flea Data

Boric acid	10043-35-3	48 Hr EC50 Daphnia magna: 115 - 153 mg/L
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<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence / degradability</b>	Not available

<b>Bioaccumulation / accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

### 13. Disposal Considerations

<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Review federal, state/provincial, and local government requirements prior to disposal.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

### 14. Transport Information

**U.S. Department of Transportation (DOT)**  
Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)**  
Not regulated as dangerous goods.

### 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada - WHMIS - Ingredient Disclosure List**

Boric acid 10043-35-3 1 %

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical Yes

**CERCLA (Superfund) reportable quantity**  
None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**WHMIS status** Controlled

**WHMIS classification** Class D - Division 2A, 2B

**WHMIS labeling**



**State regulations**

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

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Sodium tetraborate pentahydrate 12179-04-3 Present (exempt except when present as free crystal/powder)

**U.S. - Massachusetts - Right To Know List**

Sodium tetraborate pentahydrate 12179-04-3 Present

**Inventory name**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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**Prepared by**

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**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.