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## Fritz Aquatics pH Higher

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### SECTION 1: Product Information

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<b>Date Revised</b>	01/09/2012
<b>Brand Name</b>	Fritz Aquatics
<b>Product Name</b>	pH Higher
<b>Common Name</b>	Sodium Carbonate
<b>Alternate Names</b>	Soda Ash, Sodium Carbonate solution
<b>Material Uses</b>	Glass manufacture, detergent manufacture, sodium chemicals and carbonate chemicals manufacture, pulp and paper, brine treatment, water hardness removal, pH adjustment in water or waste water, flue gas desulphurization, coal treatment, ion exchange resin regeneration
<b>NFPA (704) Rating</b>	Health: 2      Flammability: 0      Reactivity: 0      Special: 0

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### SECTION 2: Composition & Information on Ingredients

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<b>CAS Number</b>	497-19-8
<b>% by Weight</b>	< 33%
<b>OSHA PEL</b>	Not Established
<b>LC<sub>50</sub>/LD<sub>50</sub></b>	Not Established

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### SECTION 3: Hazards Identification

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<b>Emergency Overview</b>	Solution in water. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat. Irritating to the eyes and continuous contact may irritate the skin. Not expected to be toxic to the environment, nor to aquatic organisms.
<b>Potential Health Hazards</b>	Direct contact with the product causes irritation of the eyes and continuous contact may cause skin irritation (red, dry, cracked skin). Excessive levels of airborne dust may irritate the mucous membranes and upper respiratory tract.

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### SECTION 4: First Aid Measures

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<b>Eye Contact</b>	Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.
<b>Skin Contact</b>	Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.
<b>Inhalation</b>	Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

<b>Ingestion</b>	Rinse mouth with water. Dilute by drinking water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.
<b>Notes to Medical Doctor</b>	While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

## SECTION 5: Fire & Explosion Data

<b>Flammability</b>	Not applicable	
<b>Explosion Hazards</b>	Not applicable	
<b>Fire Fighting Media &amp; Instructions</b>	Wear full protective clothing and self-contained breathing apparatus	
<b>Hazardous Combustion Products</b>	Fumes of sodium oxide	
<b>Sensitivity</b>	<b>Impact:</b> No	<b>Static Discharge:</b> No

## SECTION 6: Accidental Release Measures

<b>Leak/Spill</b>	Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish. This product, if spilled, can be recovered and re-use if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations.
<b>Disposal</b>	When this product is discarded or disposed of, as purchased, it is neither a characteristic nor a listed hazardous waste according to US Federal F CRA regulations (40 CFR 2261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

## SECTION 7: Handling and Storage

<b>Handling</b>	Use air conveying/mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from rail car, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selections of respirators are based on the dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains.
<b>Storage</b>	Keep containers closed. Store in a cool dry area, away from acids. Protect from extremes of temperature and humidity during storage. Recommended storage conditions 68-110°F and 54-85% relative humidity.

## SECTION 8: Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment.
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**Personal Protection**

**Skin:** Dry product is generally non-irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation after long exposures when moisture is present. Under such conditions, gloves and long-sleeved clothing are recommended to minimize skin contact.

**Eye:** Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

**Respiratory:** Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by dust.

**Additional Exposure Guidelines**

Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSH) apply to this material.

**SECTION 9: Physical & Chemical Properties**

<b>Physical State &amp; Appearance</b>	Solution in water; Slight odor
<b>Boiling Point</b>	Decomposes
<b>Freeze Point</b>	851°C (1564°F) as a solid
<b>Flash Point</b>	Non-Combustible
<b>Specific Gravity</b>	2.509 (water = 1)
<b>Bulk Density</b>	N/A
<b>pH</b>	11.4 (1% solution)
<b>Solubility</b>	33.2% maximum

**SECTION 10: Stability & Reactivity Data**

<b>Stability</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Contact with acids except under controlled conditions.
<b>Materials to Avoid</b>	Aluminum powder, acids, fluorine, molten lithium.
<b>Incompatibilities</b>	Reacts with acids with release of large volumes of carbon dioxide gas and heat.
<b>Hazardous Decomposition Products</b>	Heated to decomposition, it emits fumes of sodium oxide.
<b>Special Remarks on Reactivity</b>	Polymerization will not occur.

**SECTION 11: Toxicological Information**

<b>Eye Effects</b>	Inhalation, skin, ingestion, eyes
<b>Skin Effects</b>	Severe eye irritant; Non-irritating to intact skin. Minor irritation may occur on abraded skin.
<b>Toxicology Results</b>	Oral LD <sub>50</sub> : 4,090 mg/kg (Rat) Inhalation LD <sub>50</sub> : 2.3 mg/L (Rat, 2 hr) Sensitization: 0.25% sodium carbonate: Non-sensitizing (human)
<b>Target Organs</b>	Eyes

**Acute Effects from Overexposure** May cause sever irritation of the eyes, including corneal opacities. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract. No significant acute toxicological effects expected.

**Chronic Effects from Overexposure** No data available for the product

**Carcinogenicity** NTP: N/A IARC Monographs: N/A OSHA Regulated: N/A

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## SECTION 12: Transport Information

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**DOT Classification** Not restricted

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## SECTION 13: Other Regulatory Information & Classifications

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**CERCLA** No CERCLA Reportable Quantity has been established for this material.

**SARA Title III** Not an Extremely Hazardous Substance under Sec. 302. Not a Toxic Chemical under Sec. 313. Hazardous Categories under Sec. 311/312; Acute

**TSCA** All ingredients of this material are listed on the TSCA inventory.

**E Number** E 500

**EU EINECS Number:** 011-005-00-2

**Resource Conservation and Recovery Act (RCRA)** Refer to Section 13 "Disposal Considerations" for RCRA status.

**Clean Water Act (CWA) - Section 307 / 311** Not listed as a hazardous pollutant (40 CFR 116), nor as a toxic pollutant (40 CFR 401.15)

**Clean Air Act (CAA) – Section 112** Not regulated under the chemical accident prevention provisions (40 CFR 68)

**Australia (AICS)** Listed

**China** Listed

**Japan (ENCS)** 1-164

**Korea** KE-313B0

**Philippines (PICCS)** Listed

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