



SAFETY DATA SHEET

**PRODUCT NAME:** pH & ALKALINITY DECREASE  
Revision date: 6/15/2013

**SECTION 1 IDENTIFICATION**

<b>Supplier:</b> Phoenix Product Company 55 Container Drive Terryville, CT 06786 (860) 589-7502	<b>Distributor:</b> ESSENTIALS 5070 Wallace Drive Cumming, GA 30041 (626) 305-1182
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U.S. PERS Emergency Telephone 1-800-633-8253

**SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS**

<u>Chemical or Common Name:</u>	<u>CAS #</u>
Sodium Bisulfate	7681-38-1

**SECTION 3 HAZARDS IDENTIFICATION**

**Primary Route(s) of Entry:**

Ingestion: (X)  
Inhalation: (X)  
Skin Contact: (X)  
Eye Contact: (X)

Primary Health Hazards (Acute and Chronic):

**Carcinogenicity Listings:** Not Listed by NTP, IARC, or OSHA.

**Signs & Symptoms of Exposure:**

**Eye Contact:** Mild to severe irritant. May cause burns if not flushed with water.  
**Skin Contact:** Moderate irritant. May cause burns if not flushed with water.  
**Inhalation:** Irritant. May irritate or burn nose, throat, and lungs. No exposure limits established.  
**Ingestion:** Irritant. May irritate or burn mouth, esophagus, or stomach.

**Medical Conditions Aggravated By Exposure:**

**SECTION 4 FIRST-AID MEASURES**

**Eye Contact:** Immediately flush with water for fifteen (15) minutes, lifting eyelids to thoroughly flush. Get prompt medical attention.

**Skin Contact:** Immediately flush with water for fifteen (15) minutes. If burn occurs, obtain medical help.

**Inhalation:** Move to fresh air location. If irritation or discomfort persists, seek medical attention.

**Ingestion:** Drink a large quantity of milk or water. Follow with milk of magnesia, beaten eggs, or vegetable oil. Do not induce vomiting. Contact a physician immediately.

**Notes to Physician:**

**Eyes:** Natural watering of eyes will dissolve sodium bisulfate, forming a weak sulfuric acid solution, which may cause burns. Flush effected area thoroughly with water. Do not use chemical antidotes or neutralizing solutions.

**Skin:** Mild burns may occur if not thoroughly flushed previously.

**Inhalation:** Mild burning sensations may occur to mucous membranes and upper respiratory tract.

**Ingestion:** Body water content will react with sodium bisulfate to form a weak sulfuric acid solution, which may burn tissues in mouth, esophagus, or stomach. Solution should be diluted to reduce burning effect.

**SECTION 5 FIRE FIGHTING MEASURES**

**FIRE AND EXPLOSION HAZARD DATA**

**Flammable Properties:** Not applicable. Material will not burn.

**Flammable Limits:** Not applicable. Material is non-combustible.

**Extinguishing Media:**

Water or dry chemical, as appropriate for combustibles in area. Avoid water contact to material if possible.

**Special Fire-fighting Procedures:**

If water is used to extinguish combustibles and product is dissolved in water forming sulfuric acid, wear acid protective equipment. If elevated temperatures (>806°F) are reached, self-contained breathing apparatus should be worn.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to Be Taken In Case Material Is Spilled or Released:**

**Small spills:** Material is granular and can be swept up from surfaces.

**Large spills:** Pick-up as much material as possible with shovel or other tool. Neutralize balance of spill with weak alkaline solution and wash down to sewer if federal, state, or local regulations permit.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to Be Taken in Handling and Storage:**

Avoid contact with skin, eyes, or clothing. Do not store where exposed to moist conditions or near strong alkalis. Keep containers tightly closed. Wear all recommended protective equipment when handling.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory Protection:** NIOSH or MSA certified dust mask should be worn while handling product to control exposure below nuisance dust limits of 10 mg/m<sup>3</sup>.

**Local Exhaust:** Local ventilation to a dust collector is recommended.

**Mechanical Exhaust:**

**Other Protective Clothing or Equipment:** Wear acid resistant gloves such as rubber or neoprene, safety glasses, or goggles. Clothes should completely cover skin to avoid skin contact. Coats, coveralls, or aprons are recommended. Work/ Hygienic Practices:

**GENERAL HYGIENE CONSIDERATIONS:** There are no known health hazards associated with this material when used as recommended. Follow good industrial hygiene practices including but not limited to: (1) wash hands after use and before eating; (2) avoid breathing dust; and (3) wear safety glasses.

**SECTION 9      PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure (mm Hg): Not Determined

Vapor Density (Air=1):

Solubility in Water: 100%

Appearance: Off- white, granular dry material.

Odor: Bland odor

Specific Gravity (H<sub>2</sub>O=1): 1.28 g/cm<sup>3</sup>

Percent volatile by volume: Non-volatile

Melting Point: 350°F

Bulk Density: 83 lb. /cu ft.

**SECTION 10      STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:**

Store in dry area to avoid moisture contact.

**Incompatibility:** Avoid contact with strong alkaline materials such as caustic. Reacts with water to form weak sulfuric acid solution. Do not mix with liquid chlorine bleach, ammonia cleansers, or similar products.

**Hazardous Decomposition or By-Products:** None, unless heated over 806°F, at which sulfur dioxide and sulfur trioxide are formed.

**Hazardous Polymerization:** Will not occur.

**SECTION 11      TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** Sodium bisulfate LD50 Oral: at: 2800 mg/kg

Skin irritation – This material is neither corrosive nor destructive to the skin of New Zealand rabbits. Occasionally, a very slight rash may appear.

**SECTION 12      ECOLOGICAL INFORMATION**

This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to fish and other water organisms.



**SECTION 13      *DISPOSAL CONSIDERATIONS***

Waste Disposal Method:  
Comply with all Federal, State, and Local regulations.

**SECTION 14      *TRANSPORTATION DATA***

Domestic: (Land and DOT) not regulated.  
Canada : Not regulated

**SECTION 15      *REGULATORY INFORMATION***

SARA Title III: Section 312  
TSCA: Listed in U.S. TSCA Inventory  
NFPA: Rating: Health 1; Flammability 0; Reactivity 1 Special Precautions - None  
Registry No: Unknown  
OSHA: Irritant  
HMIS: Health 1; Flammability 0; Reactivity 1

**SECTION 16      *ADDITIONAL INFORMATION***

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

END OF MATERIAL SAFETY DATA SHEET  
*Revision 6/15/2013*