

**1. Identification**

Common Name/ Trade Name: **RPM Elements Calcium/Buffer System Part 1 Alkalinity**  
 Material Uses: Aquarium Water Quality

Revision Date: April 4, 2017

Product Number: N/A

Supplier: FRITZ INDUSTRIES, INC.  
 500 SAM HOUSTON ROAD  
 MESQUITE, TX 75149

**In Case of Emergency:**

Week Days: CHEMTREC  
 (Monday – Friday 8-5): (7 days a week, 24 hours a day)  
 (972) 285-5471 (800) 424-9300  
 (800) 955-1323

**2. Hazard(s) Identification**

Classification: Eye irritation, Category 2

Labeling:

Symbol:



Signal word: WARNING

Hazard Statement: H319 Causes serious eye irritation.

Precautionary Statements: P102 Keep out of reach of children.  
 P264 Wash exposed skin thoroughly after handling.  
 P280 Wear protective gloves and eye protection.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 IF eye irritation persists: get medical advice/attention.

Other hazard information:

Physical/Chemical Hazards: No additional hazards.

Health Hazards: No additional hazards.

Environmental Hazards: No additional hazards.

**3. Composition and Information on Ingredients**

<b>Chemical Identity</b>	<b>Numbers of Identity</b>	<b>% by Weight</b>
Sodium Carbonate	CAS# 497-19-8	<15
Sodium Bicarbonate	CAS# 144-55-8	<5
Water	CAS# 7732-18-5	>80

**4. First Aid Measures**

**Inhalation:** Inhalation not probable, but if mist is inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical attention.

**Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If irritation appears and persists, seek medical attention.

**Eye Contact:** Do not rub eyes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:** If large quantities of material are swallowed, seek medical attention immediately. Do not induce vomiting, unless directed by medical personnel.

**5. Fire and Explosion Data**

<b>General Information:</b>	Material is considered non-combustible and non-flammable.
<b>Suitable Extinguishing Media:</b>	Use media suitable for extinguishing surrounding fire.
<b>Unsuitable Extinguishing Media:</b>	None known.
<b>Specific Hazards in case of fire:</b>	None known.
<b>Special Protective Equipment and Precaution for Fire Fighters:</b>	Firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece.

**6. Accidental Release Measures**

<b>Personal precautions:</b>	Avoid contact with material. Use proper personal protective equipment (see section 8). Spilled material may cause a slipping hazard.
<b>Environmental precautions:</b>	Prevent from entering sewer and waterways.
<b>Methods and materials for containment and cleaning up:</b>	Ventilate area. Isolate and contain spill. Use absorbent material to pick up material and place in a suitable container for disposal.

**7. Handling and Storage**

<b>Precautions for safe handling:</b>	Use proper personal protective equipment (see section 8). Avoid contact with material. Wash exposed skin thoroughly after handling.
<b>Conditions for safe storage, including incompatibilities:</b>	Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store away from incompatibles (see section 10). Avoid extreme heat and cold.

**8. Exposure Controls/Personal Protection****Exposure Limits:**

Component Name (CAS-No.)	Reference	Limit Values
Sodium Carbonate CAS# 497-19-8	ACGIH (TWA)	Not established
	NIOSH (REL)	Not established
	OSHA (PEL)	Not established
Sodium Bicarbonate CAS# 144-55-8	ACGIH (TWA)	Not established
	NIOSH (REL)	Not established
	OSHA (PEL)	Not established

<b>Ventilation:</b>	Use with adequate ventilation.
<b>Respiratory protection:</b>	Not necessary, but if user generates mist, use a respirator approved for mist.
<b>Eye protection:</b>	Safety glasses with side shields or splash goggles.
<b>Skin protection:</b>	Chemical resistant gloves. Clothing should cover arms and legs.

**9. Physical and Chemical Properties**

Flashpoint:	Not determined	Lower Flammability Limit:	Not determined
Auto ignition Temperature:	Not determined	Upper Flammability Limit:	Not determined
Boiling Point:	Not determined	Specific Density:	<b>1.0±0.1</b>
Melting Point:	Not applicable	% Volatile:	Not determined
Vapor Pressure, mmHg:	Not determined	Evaporation Rate (Water=1):	Not determined
Vapor Density (air=1):	Not determined	Viscosity:	Not determined
%Solubility in Water:	<b>100%</b>	Octanol/Water Partition Coefficient:	Not determined
Pour Point:	Not determined	pH:	<b>Slightly Alkaline</b>
Molecular Formula:	Not applicable	Molecular Weight:	Not applicable
Odor/Appearance:	<b>Odorless/Clear liquid</b>		

**10. Stability and Reactivity Data**

<b>Chemical Stability:</b>	Product is stable under recommended conditions of use and storage.
<b>Possibility of hazardous reactions:</b>	Product is not reactive under recommended conditions of use and storage.
<b>Conditions to avoid:</b>	Extreme heat and cold.
<b>Materials to avoid:</b>	Strong acids.
<b>Hazardous Decomposition Products:</b>	None known under normal conditions.

**11. Toxicological Information**

<b>Routes of Exposure:</b>	Skin contact, eye contact and ingestion.
<b>Acute Toxicity:</b>	No data available.
<b>Skin Corrosion/Irritation:</b>	No data available.
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye irritation.
<b>Respiratory/Skin Sensitization:</b>	No data available.
<b>Germ cell Mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.

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**Reproductive toxicity:** No data available.  
**STOT, SE:** No data available.  
**STOT, RE:** No data available.  
**Other Chronic Toxicity:** No known effects from chronic exposure.

**12. Ecological Information**

**Persistence and degradability:** Material is not persistent in aquatic systems.  
**Bio-accumulative potential:** Material does not bio-accumulate.  
**Mobility:** No data available.  
**Aquatic Toxicity:**

Test	Results	Comments
Toxicity	No data available	

**13. Disposal Considerations**

**Waste Disposal:** Dispose in accordance with local, state, and federal regulations.

**14. Transport Information**

**US DOT:** Not regulated as a hazardous material.  
**IATA:** Not regulated as a hazardous material.  
**IMDG:** Not regulated as a hazardous material.

**15. Other Regulatory Information**

**US Regulations:**  
Inventory Status: All components listed on TSCA inventory or are exempt.  
SARA 302 EHS Chemicals: This material does not contain any SARA extremely hazardous substances.  
SARA (311/312) Hazard Categories: Acute Health Hazard.  
SARA 313: This material does not contain any SARA 313 chemicals.  
EPA CERCLA/Superfund Reportable  
Spill Quantity: This material does not contain any CERCLA regulated chemicals.

**16. Other Information**

**Abbreviations and acronyms:**  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Service  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
DOT: Department of Transportation  
EHS: Extremely Hazardous Substances  
EPA: Environmental Protection Agency  
GHS: Globally Harmonized System  
HMIS: Hazardous Materials Identification System  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods  
mg/m3: Milligrams per Cubic Meter  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
PPE: Personal Protective Equipment  
REL: Recommended Exposure Limit  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short-term exposure limit  
STOT: Specific Target Organ Toxicity  
TSCA: Toxic Substances Control Act  
TWA: Time weighted average

**Additional Information:** HMIS (U.S.A.): Health 1, Flammability 0, Reactivity 0, Protective Equipment a  
NFPA (U.S.A.): Health 1, Flammability 0, Reactivity 0

**Prepared by: Michael Carlo**                      **Preparation date: April 4, 2017**

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End of SDS