

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION 1

Product Name: Aquamate Alkalinity Plus, Maintain Pool Pro Alkalinity Increaser, Swim Clear Alkalinity Plus, The Pool Place A Great Backyard Brand Alkalinity Plus.

Product ID: 5200

Chemical Name: Sodium bicarbonate

Synonyms: Sodium hydrogen carbonate, Baking Soda, Bicar

Date: 01-28-16

Use of Substance: Recommended Use - Water treatment

Supplier Identification: Solvay Chemicals, Inc. or Church & Dwight
 3333 Richmond Avenue 500 Charles Ewing Blvd
 Houston, TX 77098-3099 Ewing Township, NJ 08628
 1-800-524-1328

Packager Identification: Baleco International Inc.
 3200 State Line Rd
 North Bend, OH 45052
 513-353-3000

Emergency and Contact Telephone Numbers:

Emergency Telephone Number: 1 (800) 424-9300 CHEMTREC® 24hrs/day, 7 days/week
 Contact Telephone Number: 1-800-353-3002 Baleco
 1-800-765-8292 Solvay

SECTION 2 HAZARDS IDENTIFICATION 2

Emergency Overview

NFPA:



HMIS:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

Classification of the Substance or Mixture

Classification (GHS-US) Not classified

Label Elements

GHS-US Labeling No labeling applicable

Other Hazards Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS 3

Substances

Name Sodium Bicarbonate
CAS No.: 144-55-8

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Sodium bicarbonate	(CAS) 144-55-8	100	Not classified

SECTION 4 FIRST AID MEASURES 4

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation: When symptoms occur: go into open air and ventilate suspected area.

Skin Contact: Brush off loose particles from skin. Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

Most Important Symptoms and Effects Both Acute and Delayed

General: None expected under normal conditions of use.

Inhalation: Prolonged inhalation of dust may cause respiratory irritation.

Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.

Eye Contact: Contact may cause irritation due to mechanical abrasion.

Ingestion: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5

FIRE FIGHTING MEASURES

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Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: For surrounding fire: Use of heavy stream of water may spread fire.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: NOT FLAMMABLE. Under fire conditions, hazardous fumes will be present.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Sodium oxides.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 6

ACCIDENTAL RELEASE MEASURES

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Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

Precautions for Safe Handling

Additional Hazards When Processed: When heated, material emits irritating fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Materials: Acids. Water. Lime.

Storage Temperature: < 65 °C (150 °F)

Specific End Use(s) Potable and Recreational Water Treatment

Control Parameters

Particulates not otherwise classified (PNOC)		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ Respirable fraction 10 mg/m ³ Total Dust
USA OSHA	OSHA PEL (TWA)(mg/m ³)	5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust
Alberta	OEL TWA (mg/m ³)	10 mg/m ³ (total)
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust)
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
New Brunswick	OEL TWA (mg/m ³)	3 mg/m ³ (particulate matter containing no asbestos and <1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
Nunavut	OEL TWA (mg/m ³)	5 mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m ³)	5 mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
Quebec	VEMP (mg/m ³)	10 mg/m ³ (including dust, inert or nuisance particulates; containing no Asbestos and 1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m ³ (insoluble or poorly soluble-inhalable fraction)
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m ³ (insoluble or poorly soluble-inhalable fraction)

Exposure Controls

Appropriate Engineering Controls: For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: For occupational or bulk quantities: Gloves. Safety glasses. Dust formation: dust mask



Materials for Protective Clothing: For occupational or bulk quantities: Chemically resistant materials and fabrics.

Hand Protection: For occupational or bulk quantities: Wear chemically resistant protective gloves.

Eye Protection: For occupational or bulk quantities: Chemical goggles or safety glasses.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Information on Basic Physical and Chemical Properties

Physical State	Solid
Appearance:	White Crystalline, powder
Odor:	Odorless
pH:	8.2 (1% Solution)
Evaporation Rate	Not available
Melting Point	Not available
Freezing Point	Not available
Boiling Point	No data available
Flash Point:	Not applicable
Auto-ignition Temperature	Not available
Decomposition Temperature:	Not available
Flammability:	Not available
Upper/Lower Flammable Limit	Not available
Vapor Pressure:	Not available
Relative Vapor Density at 20°C	Not available
Specific Gravity	62 lb/ft ³
Solubility	Water: 8.6 g/100ml @ 20 °C (68 °F)
Partition Coefficient:N-octanol/water	Not available
Viscosity	Not available
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	Not expected to present an explosion hazard due to mechanical impact.
Sensitivity to Static Discharge	Not expected to present an explosion hazard due to static discharge

SECTION 10 STABILITY AND REACTIVITY

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Reactivity:	Hazardous reactions will not occur under normal conditions.
Chemical Stability:	Decomposes slowly on exposure to water (moisture).
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Exposure to moisture or moist air. Temperatures above 150°F (65 °C).
Incompatible Materials:	Acids. Water. Lime.
Hazardous Decomposition Products:	None known. At high temperature may liberate toxic gases.

SECTION 11 TOXICOLOGICAL INFORMATION

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Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data:

Sodium Bicarbonate	
LC50 Oral Rat	7.3 g/kg
LC50 Inhalation Rat	>4.7 mg/l/4h

Skin Corrosion/Irritation: Not classified [pH: 8.2 (1% Solution)]

Serious Eye Damage/Irritation: Not classified [pH: 8.2 (1% Solution)]

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged inhalation of dust may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Contact may cause irritation due to mechanical abrasion.

Symptoms/Injuries After Ingestion: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12

ECOLOGICAL INFORMATION

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Ecotoxicity Effects

Acute Toxicity

- Fishes, *Oncorhynchus mykiss*, LC50, 96 h, 7,700 mg/l
- Fishes, *Oncorhynchus mykiss*, NOEC, 96 h, 2,300 mg/l
- Fishes, *Lepomis macrochirus*, LC50, 96 h, 7,100 mg/l
- Fishes, *Lepomis macrochirus*, NOEC, 96 h, 5,200 mg/l
- Crustaceans, *Daphnia magna*, EC50, 48 h, 4,100 mg/l
- Crustaceans, *Daphnia magna*, LOEC, 48 h, 3,100 mg/l

Chronic Toxicity

- Crustaceans, *Daphnia magna*, NOEC, 21 Days, > 576 mg/l

Mobility: Water, Soil/sediments Remarks: Solubility(ies). Water, Soil/sediments Remarks: high mobility.

Persistence and Degradability

Abiotic Degradation: Water, hydrolyses Result: acid/base equilibrium as a function of pH Degradation products: carbonic acid/bicarbonate/carbonate

Biodegradation: Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative Potential: Remarks: Does not bioaccumulate.

Other Adverse Effects: No data available

SECTION 13

DISPOSAL CONSIDERATIONS

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Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14

TRANSPORTATION INFORMATION

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In Accordance with DOT: Not regulated for transport

In Accordance with IMDG: Not regulated for transport

In Accordance with IATA: Not regulated for transport

In Accordance with TDG: Not regulated for transport

SECTION 15

REGULATORY INFORMATION

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USA Toxic Substances Control Act (TSCA): In compliance with inventory.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302

Extremely Hazardous Substance (40 CFR 355, Appendix A): Not regulated.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313

Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required: Not regulated.

US. EPA CERCLA Hazardous Substances (40 CFR 302): Not regulated.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5): Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323): Not regulated.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA Section 302 Extremely Hazardous Substances: Not listed

SARA Section 312 Threshold Planning Quantity: Not Listed

SARA Section 313 Reportable Ingredients: Not Listed

CRECLA: Not applicable

TSCA Inventory Status: listed

RCRA Identification of Hazardous Waste: Not listed

Clean Water Act (CWA): Not listed as a pollutant, nor as a toxic pollutant

Clean Air Act (CAA): Not regulated under the chemical accident prevention provisions

SECTION 16

OTHER INFORMATION

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The information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. This information should be available to all who will use, handles, store, transport, or otherwise be exposed to this product. This Information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Baleco believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. Additionally, if this safety data sheet is more than three years old, you should contact Baleco at The phone number listed in section 1 to verify the safety data sheet is current.

This SDS is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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Reason(s) for Revision:

Updates to all sections to bring into compliance.

Prepared By: MSDS/SDS Department

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End of Safety Data Sheet