



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL SDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **HTH® ALKALINITY PLUS**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Arch Chemicals, Inc.</b> 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004	REVISION DATE:	05/27/2015
	SUPERCEDES:	08/05/2013
	MSDS Number:	000000023238
	SYNONYMS:	Sodium bicarbonate, Alkalinity Adjuster
	CHEMICAL FAMILY:	Carbonate
	DESCRIPTION / USE	Alkalinity adjuster for swimming pools and spas
FORMULA:	NaHCO <sub>3</sub>	

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Eye irritation : Category 2B

### GHS Label element

Signal word : Warning

Hazard statements : H320 Causes eye irritation.

Precautionary statements :

**Prevention:**

P264 Wash skin thoroughly after handling.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**

P402 + P404 Store in a dry place. Store in a closed container.

P410 + P403 Protect from sunlight. Store in a well-ventilated



place.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Sodium Bicarbonate	144-55-8	99.0 - 100

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### SECTION 4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

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### SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or explosive.

Flammable Properties

Flash Point:	Not applicable
Autoignition Temperature:	Not applicable
Fire / Explosion Hazards:	Material will not ignite or burn.
Extinguishing Media:	Choose extinguishing media suitable for surrounding materials.
Fire Fighting Instructions:	In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products:	Carbon dioxide
Upper Flammable / Explosive Limit, % in air:	Not applicable



Lower Flammable / Explosive Limit, Not applicable  
% in air:

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

### Spill Mitigation Procedures

Air Release:

Not applicable

Water Release:

This material is slightly soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.

Land Release:

Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Do not place spill materials back in their original containers.

Additional Spill Information :

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

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## SECTION 7. HANDLING AND STORAGE

Handling:

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing dust from this material.

Storage:

Store in a cool, dry and well ventilated place.

Incompatible Materials for Storage:

acids

Do Not Store At temperatures

85 °C

Above:

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is recommended if significant dusting occurs. Otherwise use general exhaust ventilation.

### Protective Equipment for Routine Use of Product

Respiratory Protection : Respiratory protection not normally needed. If dusting occurs, wear a NIOSH approved respirator.

Respirator Type : Wear a NIOSH approved N95 respirator.

Skin Protection : Wear impervious gloves to avoid skin contact.

Eye Protection: Use safety glasses with side shields.

Protective Clothing Type: Impervious



**Components with workplace control parameters**

no data available

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	solid
Form	crystalline powder
Color:	white
Odor:	None
Molecular Weight:	84.00 g/mol
pH :	8.2 1% solution
Boiling Point:	Not applicable Not applicable
Density:	0.993g/cm3
Vapor Pressure:	(@ 25 Deg. C) Not applicable
Vapor Density:	Not applicable
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	8.6 gm /100 ml (@ 20 Deg. C)
Partition coefficient n-octanol/water:	Not applicable
Evaporation Rate:	Not applicable
Oxidizing:	No data
Volatiles, % by vol.:	Not applicable
VOC Content	Not applicable
HAP Content	No data

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**SECTION 10. STABILITY AND REACTIVITY**

Stability and Reactivity Summary:	Stable under normal conditions. Not sensitive to mechanical shock. Not sensitive to static discharge. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Contact with incompatible substances
Chemical Incompatibility:	acids
Hazardous Decomposition Products:	Carbon dioxide
Decomposition Temperature:	No data

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Component Animal Toxicology

Oral LD50 value:

Sodium Bicarbonate      LD50 > 5,000 mg/kg      Rat



Component Animal Toxicology

Dermal LD50 value:

Sodium Bicarbonate LD50 > 2,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

Sodium Bicarbonate Inhalation LC50 4 h (Whole-body) > 4.74 mg/l Rat

Product Animal Toxicity

Oral LD50 value: LD50 > 5,000 mg/kg Rat

Dermal LD50 value: LD50 > 2,000 mg/kg Rabbit

Inhalation LC50 value: Inhalation LC50 4 h (Whole-body) > 4.74 mg/l Rat

Skin Irritation: Contact would be expected to cause transient redness if not washed off and left on the skin for an extended period of time.

Eye Irritation: This material is expected to be slightly irritating.

Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Acute Toxicity: There are no known or reported target organ effects from acute exposure.

Subchronic / Chronic Toxicity: Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity: This product did not cause developmental effects in a study with laboratory animals.

Sodium Bicarbonate This product did not cause developmental effects in a study with laboratory animals.

Mutagenicity: This chemical has been tested and was shown to be non-mutagenic.

Sodium Bicarbonate This chemical has been tested and was shown to be non-mutagenic.

Carcinogenicity: This material did not cause cancer in long-term animal studies.

Sodium Bicarbonate This material did not cause cancer in long-term animal studies.

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## SECTION 12. ECOLOGICAL INFORMATION

Overview: Practically non-toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: Sodium Bicarbonate

Bluegill sunfish	- (measured, flow-through) 96 h LC50 = 7,100 mg/l
Bluegill sunfish	- (nominal, static). 96 h LC50 = 8,600 mg/l
Rainbow trout (Oncorhynchus mykiss)	- (measured, flow-through) 96 h LC50 = 7,700 mg/l
Mosquito fish	- (nominal, static). 96 h LC50 = 7,550 mg/l



Daphnia magna, - (measured, flow-through) 48 h LC50= 4,100 mg/l  
Daphnia magna, - (nominal, static). 48 h EC50= 1,640 mg/l  
Ceriodaphnia dubia - (nominal, static). 48 h LC50= 1,075 mg/l  
Daphnia magna, - (static, renewal) 21 day EC50 (chronic toxicity)> 576 mg/l

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## SECTION 13. DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it will be a nonhazardous waste according to U.S. RCRA regulations. Dispose of in accordance with all Local, State, Federal, and Provincial Environmental Regulations.

Disposal Methods : As a nonhazardous waste, it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : Not applicable

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## SECTION 14. TRANSPORT INFORMATION

**DOT**  
Not dangerous goods

**TDG**  
Not dangerous goods

**IATA**  
Not dangerous goods

**IMDG-CODE**  
Not dangerous goods

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## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**



**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

Sodium hydrogencarbonate 144-55-8

**New Jersey Right To Know**

Sodium hydrogencarbonate 144-55-8

**California Prop 65**

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

**The components of this product are reported in the following inventories:**

TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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**SECTION 16. OTHER INFORMATION**

SECTIONS REVISED: 4  
Major References : Available upon request.



**Arch  
Chemicals,  
Inc.**

## SAFETY DATA SHEET

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, 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. ARCH CHEMICALS 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 MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .