



# Alkalinity Increaser

**WARNING: KEEP OUT OF REACH OF CHILDREN**

See additional warnings on back panel.

**Raises total alkalinity level to safe range**

**Stabilizes pH balance in pool water**

**Enables chlorine to work more efficiently**

**Stops eye irritation, equipment corrosion,  
& plaster etching cause by low alkalinity**

**NET WEIGHT 5 lbs (2.27 kg)**

**ITEM # NY531**

# Alkalinity Increaser

*Raises Total Alkalinity to Ideal Levels*

ALKALINITY INCREASER is used to raise the total alkalinity of swimming pool water, and help control pH in low alkalinity water.

TIP: When alkalinity is adjusted to within ideal levels, it maximizes the likelihood that pH levels will stabilize and remain constant.

**DIRECTIONS:** The ideal total alkalinity of swimming pool water is 80–150 ppm (parts per million). Use a total alkalinity test kit to determine total alkalinity in your pool water or consult your pool dealer to conduct this test.

To raise total alkalinity, add 1-1/2 lbs. (approx. 2-1/4 cups) of ALKALINITY INCREASER for each 10,000 gallons of pool water to raise the total alkalinity 10 parts per million. (Example: If you wish to raise the total alkalinity of a 20,000 gallon pool by 20 parts per million, you would need 6 lbs. of ALKALINITY INCREASER).

Add ALKALINITY INCREASER directly to the pool by sprinkling the needed amount into the water. Let the filtration run overnight to circulate and mix the water thoroughly.

Since ALKALINITY INCREASER will have only a minor effect on pH, the entire amount required may be added to the pool at one time.

**STATEMENT OF PRACTICAL TREATMENT (FIRST AID): IF IN EYES:** Check for and remove contacts. Flood eyes with clean flowing water, low pressure and luke warm, if possible, occasionally lifting eyelids. **IF INGESTED:** If large amounts of this material are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Large doses may produce systemic alkalosis and expansion in extra cellular fluid volume with edema.

Distributed by:  
**Blue Wave Products**  
St. Charles, IL 60174

**1-800-759-0977**

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Alkalinity Increaser

Date Revised: 08/20/2008

Revision No: 1

## Blue Wave Alkalinity Increaser

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Blue Wave Alkalinity Increaser**GENERAL USE:** Alkalinity Increaser**GENERIC NAME:** Sodium Bicarbonate; Sodium Hydrogen Carbonate

#### DISTRIBUTOR

Blue Wave Products  
 1745 Wallace Ave # B  
 St Charles IL 60174

**Product Stewardship:** (800) 759-0977

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** No significant health or environmental effects associated with this material.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Non-irritating to the eyes.**SKIN:** Non-irritating to the skin.**INGESTION:** Material is non-toxic. Small amounts (1-2 tablespoons) are not likely to cause injury if stomach is not overly full. Swallowing larger amounts may cause injury.**INHALATION:** Not expected to be toxic by inhalation.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**CHRONIC EFFECTS:** Only known subchronic effect is that of a marked systemic alkalosis.**CARCINOGENICITY:** No known effects.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Sodium Hydrogen Carbonate; Sodium Bicarbonate	100	000144-55-8	205-633-8

**COMMENTS:** (sodium hydrogen carbonate; sodium bicarbonate)

### 4. FIRST AID MEASURES

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Alkalinity Increaser

Date Revised: 08/20/2008

Revision No: 1

## Blue Wave Alkalinity Increaser

**EYES:** Remove contacts. Flush eyes with clean flowing lukewarm water while occasionally lifting eyelids.

**SKIN:** No first aid needed.

**INGESTION:** If large amounts of this material are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person.

**INHALATION:** No first aid needed.

**NOTES TO PHYSICIAN:** Large doses may produce systemic alkalosis and expansion in extra cellular fluid volume with edema.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not combustible.

**FLAMMABLE LIMITS:** 0 to 0

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.

**FIRE FIGHTING PROCEDURES:** Carbon dioxide may be generated making necessary the use of self-contained breathing apparatus (SCBA) and full protective equipment (bunker gear). Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another thermal decomposition product existing at temperatures above 850 deg C is a respiratory, eye, and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Scoop up into dry clean containers. Wash away uncontaminated residue with water.

### 7. HANDLING AND STORAGE

**HANDLING:** Sodium bicarbonate reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and have been determined to be safe.

**STORAGE:** Store in a cool dry place. Store away from incompatible materials.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No special ventilation requirements.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses when dusts are generated.

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Alkalinity Increaser

Date Revised: 08/20/2008

Revision No: 1

## Blue Wave Alkalinity Increaser

**SKIN:** General purpose gloves for handling dry product. Impervious gloves for solutions.

**RESPIRATORY:** A dust mask should be used if total dust levels exceed 10 mg/m<sup>3</sup>.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** None.

**APPEARANCE:** White crystalline.

**pH:** Not Available

**VAPOR PRESSURE:** N/A

**VAPOR DENSITY:** N/A.

**BOILING POINT:** N/A

**FREEZING POINT:** N/A

**FLASHPOINT AND METHOD:** Not combustible.

**SOLUBILITY IN WATER:** 8.6/100 mg @ 20 deg C

**SPECIFIC GRAVITY:** 1.000

**MOLECULAR WEIGHT:** 84.02

**(VOC):** 100.000

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Heating above 100 deg C may cause dangerous levels of carbon dioxide gas to be present in confined spaces.

**INCOMPATIBLE MATERIALS:** Reacts with acids. May yield free caustic in presence of lime dust and moisture.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**ORAL LD<sub>50</sub>:** 7.3 g/kg (rat)

**INHALATION LC<sub>50</sub>:** > 4.74 mg/L (rat)

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Alkalinity Increaser

Date Revised: 08/20/2008

Revision No: 1

## Blue Wave Alkalinity Increaser

**EYE EFFECTS:** Minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits).

**SKIN EFFECTS:** Not a skin irritant or dermally toxic. Not a contact sensitizer.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** This product is not expected to persist in the environment.

**BIOACCUMULATION/ACCUMULATION:** This product is not expected to bioaccumulate.

**AQUATIC TOXICITY (ACUTE):** Daphnids EC50 = 4100 mg/l

Bluegill LC50 = 7100 mg/l

Rainbow Trout LC50 = 7700 mg/l

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with applicable local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not Regulated.

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Not listed.

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Sodium Hydrogen Carbonate; Sodium Bicarbonate	000144-55-8

#### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** Not hazardous.

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Alkalinity Increaser

Date Revised: 08/20/2008

Revision No: 1

## Blue Wave Alkalinity Increaser

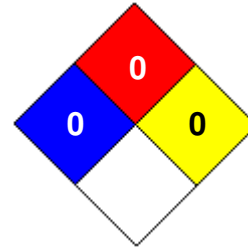
### 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision #: 1 This MSDS replaces the June 30, 2008 MSDS. Any changes in information are as follows:

#### HMIS RATING

HEALTH:	0
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

#### NFPA CODES



**MANUFACTURER DISCLAIMER:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).