



Hardness Increaser

CAUTION: KEEP OUT OF REACH OF CHILDREN
See First Aid and additional precautions on back panel.

Raises the hardness (calcium) level in your pool water to the ideal range

Prevents water from becoming corrosive and damaging your pool's plumbing and heater

Stops staining and etching of pool surfaces caused by low hardness levels

NET WEIGHT 4 lbs (1.81 kg)

ITEM # NY591

Hardness Increaser

HARDNESS INCREASER helps prevent corrosion of exposed metal in pool equipment, plaster, and tile grout in pool water that lacks specific mineral content.

DIRECTIONS FOR USE: Blue Wave **HARDNESS INCREASER** will raise the calcium mineral of pool water. Following are the ideal levels for your pool type:

- 1) Vinyl-lined or fiberglass pools – 150 to 175 ppm
- 2) Concrete or plastered (marcite) pools – 240 to 300 ppm

Dosage: Adding 5 lbs. of Blue Wave's **HARDNESS INCREASER** to 10,000 gallons of water to raise the calcium mineral level approximately 40 ppm.

Warning: Contains calcium chloride. Do not get in eyes, on skin, or on clothing. Contact may cause eye injury or skin irritation. Harmful if swallowed.

Statement of Practical Treatment (First Aid): **IF SWALLOWED:** Drink promptly a large quantity of water. Avoid alcohol. Call physician immediately. **IF ON CLOTHING:** Remove and wash contaminated clothing before reuse. **IF IN EYES:** Promptly flush eyes with large volumes of water for at least 15 minutes. Get medical attention. **IF ON SKIN:** Wash with plenty of soap and water. If irritation persists, seek medical attention. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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 Hardness Increaser

Date Revised: 08/19/2008

Revision No: 1

Blue Wave Hardness Increaser

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Hardness Increaser**GENERAL USE:** Calcium Increaser

DISTRIBUTOR

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

Product Stewardship: (800) 759-0977

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Avoid breathing dusts. Causes eye irritation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Reacts with water to liberate heat.

POTENTIAL HEALTH EFFECTS

EYES: May irritate or burn eyes.**SKIN:** May cause skin irritation.**INGESTION:** May cause nausea.**INHALATION:** Dusts may cause irritation to mucous membranes and respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CARCINOGENICITY: Not listed by NTP, IARC or OSHA.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Calcium Chloride	100	010043-52-4	233-140-8

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if any adverse effect occurs.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes.

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Hardness Increaser

Date Revised: 08/19/2008

Revision No: 1

Blue Wave Hardness Increaser

INGESTION: Get medical attention.

INHALATION: Remove to fresh air.

NOTES TO PHYSICIAN: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: 0 to 0

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam.

HAZARDOUS COMBUSTION PRODUCTS: N/A

EXPLOSION HAZARDS: Negligible hazard when exposed to heat or flame.

FIRE FIGHTING PROCEDURES: Move containers from fire area if you can without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind. Dike area to prevent runoff and contamination of water sources.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: For dry spills, place material in covered, clean, dry container for disposal.

SPECIAL PROTECTIVE EQUIPMENT: Wear appropriate protective equipment and clothing during clean-up.

7. HANDLING AND STORAGE

HANDLING: Avoid skin and eye contact and breathing dusts. Wash thoroughly after handling. Launder contaminated clothing before re-use.

STORAGE: Observe all federal, state, and local regulations when storing this product. Store in a covered, clean and dry container away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Hardness Increaser

Date Revised: 08/19/2008

Revision No: 1

Blue Wave Hardness Increaser

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
			EXPOSURE LIMITS	
			Supplier OEL	
Chemical Name			ppm	mg/m ³
Calcium Chloride	TWA	10 mg/		

ENGINEERING CONTROLS: Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield if splashing is possible.

SKIN: Wear non-leather gloves and boots.

RESPIRATORY: A respirator is not indicated under normal operating conditions. Use of a NIOSH approved respirator should be based upon the presence of nuisance dust. When warranted, use a face mask particulate respirator with a NIOSH N95 rating or equivalent.

PROTECTIVE CLOTHING: Impervious clothing to prevent skin contact. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: None.

APPEARANCE: White pellet flakes.

pH: Not Available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

MELTING POINT: 187°C (369°F) to 773°C (1424°F)

FLASHPOINT AND METHOD: Not Applicable

SOLUBILITY IN WATER: 40% @ 68 deg F (20 deg C) with evolution of heat

SPECIFIC GRAVITY: 2.150

10. STABILITY AND REACTIVITY

STABILITY: Reacts exothermically with water.

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Hardness Increaser

Date Revised: 08/19/2008

Revision No: 1

Blue Wave Hardness Increaser

CONDITIONS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBLE MATERIALS: Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 1000 mg/kg (rat)

INHALATION LC₅₀:

Notes: Eye, mucous membrane and skin irritant
Moderately toxic by dermal absorption.

NOTES: LD50 264 mg/kg, intraperitoneal (rat)

12. ECOLOGICAL INFORMATION

COMMENTS: Product will not biodegrade or accumulate.

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)

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

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: No.

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Hardness Increaser

Date Revised: 08/19/2008

Revision No: 1

Blue Wave Hardness Increaser

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Calcium Chloride	010043-52-4

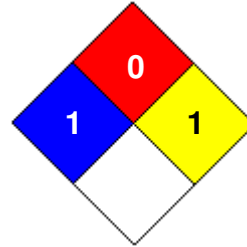
TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CALIFORNIA PROPOSITION 65: There are no chemicals present known to the State of California to cause cancer.

16. OTHER INFORMATION

REVISION SUMMARY: Revision #: 1 This MSDS replaces the June 26, 2008 MSDS. Any changes in information are as follows:

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).