

MATERIAL SAFETY DATA SHEET

MSDS

PRO GUARD TOTAL ALKALINITY INCREASER



Date-Issued: 11/09/1999
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 Revision No: 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO GUARD TOTAL ALKALINITY INCREASER
GENERAL USE: Alkalinity increaser.
CHEMICAL FAMILY: Carbonates

MANUFACTURER

Bio-Lab, Inc.
 ProGuard
 P.O. Box 1489
 Decatur, GA 30031
Customer SERVICE: (800)859-7946

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300
Poison Control Center (Medical) (877)800-5553

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Sodium hydrogen carbonate	144-55-8	100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White, odorless powder.

IMMEDIATE CONCERNS: CAUTION: Avoid contact with eyes. Wear safety glasses when handling this product. Avoid breathing dust. Do not mix with any other chemicals.

POTENTIAL HEALTH EFFECTS

EYES: May cause mechanical irritation with redness, itching and swelling. Avoid contact with eyes.

SKIN: Product is non-irritating to skin. However, as part of a good work and personal hygiene practices, avoid unnecessary contact with skin.

INGESTION: This product is practically non-toxic. Small amounts (1-2 tablespoonfuls) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full. Swallowing larger amounts may cause injury, including systemic alkalosis.

INHALATION: Elevated dust levels may cause irritation to upper respiratory tract. Avoid breathing dust.

CHRONIC: There are no known chronic hazards.

ROUTES OF ENTRY: Eye Contact, Inhalation, Ingestion.

4. FIRST AID MEASURES

EYES: If in eyes: Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

INGESTION: If swallowed: If large amounts of this product are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person. Avoid Alcohol. Call a doctor or poison control center for treatment advice.

INHALATION: If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

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

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Non-Flammable

AUTOIGNITION TEMPERATURE: Not Applicable

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Utilizing appropriate protective equipment, sweep up dry material and dispose of in accordance with Federal, State and local regulations. Wash spill area with large amounts of water and flush to drain.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes. Avoid breathing dust.

HANDLING: Mix only with water. Do not mix with other chemicals.

STORAGE: Keep this product dry in tightly closed container when not in use. Store in a cool, dry, well ventilated area. Do not reuse empty container, but place in trash collection.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: General room ventilation plus local exhaust should be used to minimize exposure to dust/vapors.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Use of safety glasses with side shields is recommended, if conditions warrant.

SKIN: For personal hygiene purposes use adequate clothing to prevent skin contact.

RESPIRATORY: Use MSHA-NIOSH approved dust respirator if total dust levels exceed 10 mg/m3.

WORK HYGIENIC PRACTICES: In accordance with good industrial hygiene practices, wash hands thoroughly with soap and water after handling this product.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Odorless

APPEARANCE: Powder

COLOR: White

pH: 8.2(1% solution)

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

FREEZING POINT: Not Applicable

MELTING POINT: Not Applicable

THERMAL DECOMPOSITION: 270°C

SOLUBILITY IN WATER: 8.6g/100g water

DENSITY: 62 lb/cu ft

MOLECULAR WEIGHT: 84.02

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperature. Poor ventilation. Contamination. Moisture/high humidity.

STABILITY: This product is stable under normal conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: When temperature is raised to 190 F and beyond, carbon dioxide gas will be released to the atmosphere. The resulting dust may be irritating to the eyes, skin and respiratory tract.

INCOMPATIBLE MATERIALS: Other swimming pool/spa chemicals in their concentrated forms. Acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 7.3 g/kg of body weight in rats

INHALATION LC₅₀: >4.74 mg/l (rats)

EYE EFFECTS: This product is minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits).

SKIN EFFECTS: This product is not a skin irritant, dermally toxic, or a contact sensitizer.

CARCINOGENICITY:

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Aquatic Toxicity:

Daphnids (EC50) = 4100 mg/l

Bluegill (LC50) = 7100 mg/l

Rainbow Trout (LC50) = 7700 mg/l

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Disposal of unused, uncontaminated product is regulated according to local, state and federal regulations.

EMPTY CONTAINER: Do not reuse empty container. Discard in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Sodium bicarbonate

PRIMARY HAZARD CLASS/DIVISION: Not listed

UN/NA NUMBER: Not listed

15. REGULATORY INFORMATION**UNITED STATES**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: This product or its components are not listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification.

TSCA STATUS: This product or its components are listed on the TSCA Inventory.

RCRA STATUS: This product, as sold, would not be considered a RCRA Hazardous Waste.

OSHA HAZARD COMM. RULE: Product is not hazardous by definition of the Hazardous Communication Standard.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is not a registered pesticide.

16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department

REVISION SUMMARY Revision #: 2

This MSDS replaces the July 16, 2001 MSDS. Any changes in information are as follows:

In Section 7

Storage

HMIS RATING		
HEALTH:		0
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		B

NFPA RATING	
HEALTH:	0
FIRE:	0
REACTIVITY:	0

Key
4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

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