

**MATERIAL SAFETY DATA SHEET**

MSDS

**BioGuard Balance Pak 100**

**Date-Issued:**06/28/1997  
**MSDS Ref. No:**BBIO23406  
**Date-Revised:**09/07/2001  
**Revision No:**3

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** BioGuard Balance Pak 100  
**GENERAL USE:** Alkalinity increaser.  
**CHEMICAL FAMILY:** Carbonates

**MANUFACTURER**

Bio-Lab, Inc.  
 BioGuard  
 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**

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**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.

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## 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.

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## 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.

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## 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/m<sup>3</sup>.

**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.

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## 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

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## 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.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**ORAL LD<sub>50</sub>:** 7.3 g/kg of body weight in rats

**INHALATION LC<sub>50</sub>:** >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.

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Aquatic Toxicity:

Daphnids (EC50) = 4100 mg/l

Bluegill (LC50) = 7100 mg/l

Rainbow Trout (LC50) = 7700 mg/l

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## 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.

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## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Sodium bicarbonate

**PRIMARY HAZARD CLASS/DIVISION:** Not listed

**UN/NA NUMBER:** Not listed

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## 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.

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## 16. OTHER INFORMATION

**PREPARED BY:** Regulatory Affairs Department

**REVISION SUMMARY** Revision #: 3

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

In Section 7

Storage

**HMIS RATING**

<b>HEALTH:</b>		0
<b>FLAMMABILITY:</b>		0
<b>PHYSICAL HAZARD:</b>		0
<b>PERSONAL PROTECTION:</b>		B

**NFPA RATING**

<b>HEALTH:</b>	0
<b>FIRE:</b>	0
<b>REACTIVITY:</b>	0

## Key

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Minimal

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