

# Material Safety Data Sheet

## BIOGUARD® MAINTAIN BALANCE PAK® 300

Version: 1.1

Revision Date: 01/01/2014

Print Date: 03/05/2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® MAINTAIN BALANCE PAK® 300*

Product Use Description: Recreational Water Product

Chemical nature: Inorganic salt

Company: Bio-Lab, Inc.  
BioGuard  
P.O. Box 300002  
Lawrenceville, GA  
30049-1002

Telephone: (800) 859-7946

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300, 703-527-3887  
Poison Control Center (Medical) :: (877) 800-5553  
Customer Care: 800-998-7946

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department

01/01/2014

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### Caution

Form: pellets or flakes

Colour: white to off-white

Odour: odourless

Hazard Summary

: May cause eye irritation.  
May cause skin irritation.  
May be harmful if swallowed.  
Avoid breathing dust or vapor.  
May cause respiratory tract irritation.  
Do not get in eyes, on skin, or on clothing.

OSHA Hazards

: IRRITANT

#### Potential Health Effects

Primary Routes of Entry : Skin contact  
Eye contact

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Inhalation  
Ingestion

Inhalation : Dust may cause irritation of the respiratory tract.

Skin : May cause skin irritation.  
May cause burns or external ulcers.

Eyes : May cause eye irritation.  
Eye burns may occur.

Ingestion : May be harmful if swallowed.

Chronic Exposure : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
calcium chloride (Aerosol) 10043-52-4	75 - 97 %
sodium chloride 7647-14-5	1 - 2 %
potassium chloride (Dust) 7447-40-7	2 - 3 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation : Move to fresh air.  
Call a physician if irritation develops or persists.

Skin contact : Rinse immediately with plenty of water for at least 15 minutes.  
Call a physician if irritation develops or persists.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
Call a physician or poison control centre immediately.

Ingestion : If swallowed  
Do NOT induce vomiting.  
Drink 1 or 2 glasses of water.  
Call a physician or poison control centre immediately.

### SECTION 5. FIREFIGHTING MEASURES

#### Flammable properties

Flash point : Remarks: not applicable

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#### Fire fighting

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : The product itself does not burn.  
When calcium chloride is being dissolved in water, large amounts of heat develop.

#### Protective equipment and precautions for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.  
Do not add water to spilled material.  
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.  
Flush away traces with water.

Additional advice : Treat recovered material as described in the section "Disposal considerations".

### SECTION 7. HANDLING AND STORAGE

#### Handling

Handling procedures : Avoid contact with skin, eyes and clothing.  
Avoid breathing dust.  
Never add water to this product.  
When calcium chloride is being dissolved in water, large amounts of heat develop.  
Always add product to large quantities of water.  
Do not mix with other chemicals.  
Use only clean and dry utensils.  
Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.  
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.  
Do not handle until all safety precautions have been read and understood.

#### Storage

Requirements for storage areas and containers : Store in original container.  
Keep in a dry, cool and well-ventilated place.  
Keep out of reach of children.  
Keep away from animals.

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure Guidelines

##### Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Use with adequate ventilation.

##### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Wear rubber gloves.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures : Wash contaminated clothing before reuse.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

##### Appearance

Form : pellets or flakes  
Colour : white  
to  
off-white

Odour : odourless

##### Safety data

Flash point : Note: not applicable

pH : Note: no data available

Melting point/range : ca. 1,422 °F (772 °C)

: Note: not applicable

Vapour pressure : not applicable

Bulk density : 749 kg/m<sup>3</sup>

Water solubility : Note: soluble

Partition coefficient: n- : Note: no data available

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octanol/water  
Viscosity, kinematic : Note: not applicable

Relative vapour density : Note: not applicable

#### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.  
Poor ventilation.  
Contamination  
Moisture/high humidity.

Materials to avoid : Remarks: Do not mix with other swimming pool/spa chemicals in their concentrated forms.  
Avoid contact with water on concentrated material in the container.

Hazardous reactions : Hazardous polymerisation does not occur.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 900 - 2,100 mg/kg  
Species: rat

Acute dermal toxicity : > 5,000 mg/kg  
Species: rabbit

Skin irritation : Remarks: May irritate skin.  
May cause burns or external ulcers.

Eye irritation : Remarks: May irritate eyes.  
Eye burns may occur.

CMR effects  
sodium chloride : Carcinogenicity: Animal testing did not show any carcinogenic effects.  
Mutagenicity: Animal testing did not show any mutagenic effects.  
Teratogenicity: No effects on or via lactation

potassium chloride (Dust) : Carcinogenicity: Animal testing did not show any carcinogenic effects.  
Mutagenicity: In vitro tests did not show mutagenic effects  
Teratogenicity: No effects on or via lactation

#### 12. ECOLOGICAL INFORMATION

Toxicity to fish  
calcium chloride (Aerosol) : 13,400 mg/l  
Exposure time: 48 h

Species: Gambusia affinis (Mosquito fish)

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LC50: 8,350 - 10,650 mg/l  
Species: Lepomis macrochirus (Bluegill sunfish)

sodium chloride : LC50: 9,675 mg/l  
Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill)  
flow-through test Analytical monitoring: yes

potassium chloride (Dust) : LC50: 4,236 mg/l  
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

#### Toxicity to daphnia and other aquatic invertebrates

calcium chloride (Aerosol) : LC50: 759 - 3,005 mg/l  
Species: Daphnia magna (Water flea)

sodium chloride : EC50: 1,000 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

potassium chloride (Dust) : LC50: 3,470 mg/l  
Exposure time: 96 h  
Species: Daphnia magna (Water flea)

#### Toxicity to algae

calcium chloride (Aerosol) : EC50: 3,130 mg/l  
Exposure time: 120 h  
Species: Skeletonema costatum (marine diatom)

sodium chloride : 4,967 mg/l  
Exposure time: 72 h  
Species: Algae

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

potassium chloride (Dust) : NOEC: > 100 mg/l  
Species: Daphnia magna (Water flea)

#### Bioaccumulation

calcium chloride (Aerosol) : Remarks:  
This substance is not considered to be persistent, bioaccumulating  
nor toxic (PBT).

#### Further information on ecology

### SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.  
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.  
Contact with incompatible materials could cause a reaction or fire.

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Contaminated packaging : Do not re-use empty containers.  
Rinse thoroughly before discarding in trash.  
Offer rinsed packaging material to local recycling facilities.

### SECTION 14. TRANSPORT INFORMATION

#### DOT

Not dangerous goods

#### **TDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **RID**

Not dangerous goods

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Irritant

**SARA 311/312 Hazards** : Acute Health Hazard

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

**EINECS** : On the inventory, or in compliance with the inventory

**TSCA** : On TSCA Inventory

**AICS** : On the inventory, or in compliance with the inventory

**DSL** : All components of this product are on the Canadian DSL list.

**ENCS** : On the inventory, or in compliance with the inventory

**KECI** : On the inventory, or in compliance with the inventory

**PICCS** : On the inventory, or in compliance with the inventory

**IECSC** : On the inventory, or in compliance with the inventory

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### SECTION 16. OTHER INFORMATION

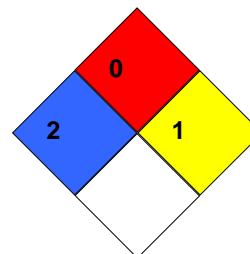
#### Further information

#### HMIS Classification

: Health hazard: 2  
Flammability: 0  
Physical hazards: 0  
PPI: Ask supervisor or safety specialist for handling instructions

#### NFPA Classification

: Health hazard: 2  
Fire Hazard: 0  
Reactivity Hazard: 1



#### Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.