

Material Safety Data Sheet

BIOGUARD® BURNOUT® 73

Version: 1.1

Revision Date: 10/16/2013

Print Date: 12/05/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® BURNOUT® 73*

Product Use Description: Recreational Water Product

Registration number: 748-294-5185

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
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

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

Prepared by Product Safety Department
(US) +1 866-430-2775

10/16/2013

MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Form: granular Colour: white Odour: Chlorine

Hazard Summary : Corrosive
Strong oxidizer. Contact with other material may cause fire.
Harmful or fatal if swallowed.
Causes serious eye damage.
Causes skin burns.
Harmful if absorbed through skin.
Avoid breathing dust or vapor.
Causes respiratory tract irritation.
Do not get in eyes, on skin, or on clothing.

OSHA Hazards : CORROSIVE
OXIDIZER
HARMFUL BY INGESTION.
HARMFUL BY SKIN ABSORPTION.

Potential Health Effects

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Primary Routes of Entry : Skin contact
Eye contact
Inhalation
Ingestion

Aggravated Medical Condition : Respiratory disorders
Skin disorders

Inhalation : Causes respiratory tract irritation.

Skin : On contact with moisture, this material readily hydrolyzes to acid which may result in burns if not promptly removed.
Harmful if absorbed through skin.

Eyes : Causes serious eye damage.

Ingestion : Harmful or fatal if swallowed.

Chronic Exposure : None known.

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
calcium hypochlorite 7778-54-3	73 %
calcium chlorate 10137-74-3	< 5 %
calcium dihydroxide 1305-62-0	1 - 3 %
calcium carbonate 471-34-1	1 - 3 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
Call a POISON CENTER or doctor/ physician.

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- Skin contact : Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 15 minutes.
Call a POISON CENTER or doctor/ physician.
- 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 POISON CENTER or doctor/ physician.
- Ingestion : Call a physician or poison control centre immediately.
Have person sip a glass of water if able to swallow.
Do not induce vomiting unless told to do so by the poison control center or doctor.
Never give anything by mouth to an unconscious person.

Notes to physician

- Treatment : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

- Flash point : Remarks: not applicable

Fire fighting

- Suitable extinguishing media : Flood with large volumes of water.
- Unsuitable extinguishing media : ABC powder
Dry chemical
Risk of violent reaction.
- Further information : When in contact with other combustible materials, this product may increase the burning rate of the combustible material.
Do not let fire burn.

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.
Do not close containers containing wet or damp material. They should be left

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open to disperse any hazardous gases that may form.

Additional advice : Do not use floor sweeping compounds to clean up spills.
Do not transport wet or damp material.
Treat recovered material as described in the section "Disposal considerations".
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Avoid breathing vapors.
Contains a strong oxidizing agent.
Do not mix with other chemicals.
Mix only with water.
Never add water to this product.
Always add product to large quantities of water.
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.
Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.
In case of contamination or decomposition, do not reseal container.
If possible, isolate container in open air or well-ventilated area.
Flood with large volumes of water.
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 : Keep container closed when not in use.
Store in a cool, dry, well ventilated area away from heat or open flame.
Store in original container.
For bags: Store dry product in its original unopened bag until use. For partially used bags, fold over top of bag and secure with adhesive tape.
Keep out of reach of children.
Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
calcium dihydroxide 1305-62-0	TWA ACGIH 2007-01-01	5 mg/m3	

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	TWA OSHA Z-1 2007-01-01	15 mg/m3	
	TWA OSHA Z-1 2007-01-01	5 mg/m3	
	TWA OSHA P0 1989-01-19	5 mg/m3	
	TWA NIOSH REL 2005-09-01	5 mg/m3	
calcium carbonate 471-34-1	TWA NIOSH REL 2005-09-01	5 mg/m3	
	TWA NIOSH REL 2005-09-01	10 mg/m3	

Engineering measures

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

Personal protective equipment

Eye protection : Safety glasses with side-shields
Face-shield
or
Goggles

Hand protection : Wear rubber gloves.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Wash contaminated clothing before reuse.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : granular
Colour : white
Odour : Chlorine

Safety data

Flash point : Note: not applicable
pH : Note: alkaline
Freezing point : Note: not applicable
Melting point/range : Note: no data available
Boiling point/boiling range : Note: not applicable
Vapour pressure : no data available
Water solubility : 100 g/l
at 77 °F (25 °C)

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Moisture/high humidity.
Contamination
Heat, flames and sparks.
Direct sources of heat.
Strong sunlight for prolonged periods.
If subject to excessive temperature, the product may undergo rapid decomposition, evolution of chlorine gas, and heat sufficient to ignite combustible substances.
If product is exposed to small amount of water, it can react to produce heat and chlorine gas. Use copious amounts of water for fires involving this product.

Materials to avoid : Remarks: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; chlorinated isocyanurates; other swimming pool/spa chemicals in their concentrated form; acids. Avoid contact with all other chemicals.

Do not mix with other chemicals or any other substance.

Hazardous decomposition products : Note: Oxygen
Chlorine containing gases can be produced.

Thermal decomposition : 170 - 180 °C

Hazardous reactions : Hazardous polymerisation does not occur.

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SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50: 1,195 mg/kg
Species: rat
- Acute inhalation toxicity : Remarks: This material in the form as sold is not expected to produce respiratory effects.
If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur.
May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes.
- Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: rabbit
- Skin irritation : Species: rabbit
Remarks: Causes skin burns.
Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.
- : Remarks: Dry chemical
In vitro study
Non-corrosive
- Eye irritation : Remarks: Causes serious eye damage.
- Sensitisation
calcium dihydroxide : Classification: Did not cause sensitization on laboratory animals.
- Reproductive toxicity
calcium carbonate : Species: rat
Application Route: Oral
- CMR effects
calcium carbonate : Teratogenicity: No effects on or via lactation
Reproductive toxicity: No toxicity to reproduction

12. ECOLOGICAL INFORMATION

- Toxicity to fish
calcium dihydroxide : LC50: 160 mg/l
Exposure time: 96 h
- Species: Gambusia affinis (Mosquito fish)
static test

Further information on ecology

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Additional ecological information : Toxic to fish.
Toxic to aquatic organisms.
Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.
If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State Pesticide Agency.
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.
Do not contaminate ponds, waterways or ditches with chemical or used container.

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

UN number : 2880
Description of the goods : Calcium hypochlorite, hydrated
Class : 5.1
Packing group : II
ERG Code : 140

IATA

UN number : 2880
Description of the goods : Calcium hypochlorite, hydrated
Class : 5.1
Packing group : II
Labels : 5.1
Environmentally hazardous : no

IMDG

UN number : 2880
Description of the goods : CALCIUM HYPOCHLORITE, HYDRATED

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Class : 5.1
Packing group : II
EmS Number 1 : F-H
EmS Number 2 : S-Q

Marine pollutant : no
Environmentally hazardous : no

Limited Quantity exemption possible

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Corrosive, Oxidizer, Harmful by ingestion., Harmful by skin absorption.

CERCLA Reportable Quantity : 15 lbs
calcium hypochlorite 7778-54-3 10 lbs

SARA 302 Reportable Quantity :

SARA 311/312 Hazards : Reactivity Hazard
Fire Hazard
Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable Quantity :

SARA 304 Components : This material does not contain any components with a section 304 EHS RQ.

California Prop. 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

US.TSCA On TSCA Inventory

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

AICS On the inventory, or in compliance with the inventory

NZIoC On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI On the inventory, or in compliance with the inventory

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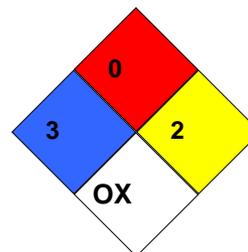
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TSCA list Information	<u>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</u> <u>ZUS T12B</u> <u>Not relevant</u>

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3
Flammability: 0
Physical hazards: 2
PPI: Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 2
Specific hazards: OX Class 3
Oxidizer.



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

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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.