

SpaGuard® Calcium Hardness Increaser

Version:	1.0
Revision Date:	04/10/2008
Print Date:	09/18/2009

The recipient of this Safety Data Sheet is urged to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet, (2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SpaGuard® Calcium Hardness Increaser
Product Use Description: Recreational Water Product
Chemical nature: Inorganic salt

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

Emergency telephone: CHEMTREC (US Transportation) :
(800) 424-9300
(703) 527-3887
Poison Control Center (Medical) :
(877) 800-5553

Customer Service: (800) 859-7946

Prepared by: Product Safety Department
(US) +1 866-430-2775
(EU) +44 (0) 1753.603.000
Email: MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Form: pellets or flakes
Colour: White to off-white
Odour: Odorless

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

OSHA Hazards:
THIS MATERIAL IS HAZARDOUS UNDER THE
CRITERIA OF THE FEDERAL OSHA HAZARD
COMMUNICATION STANDARD 29CFR 1910.1200.

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Potential Health Effects

- Primary Routes of Entry : Skin contact
Eye contact
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.	Concentration
calcium chloride	10043-52-4	75 - 97 %
sodium chloride	7647-14-5	1 - 2 %
potassium chloride	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 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.

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Call a physician or poison control centre immediately.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : not applicable

Protective equipment and precautions for firefighters

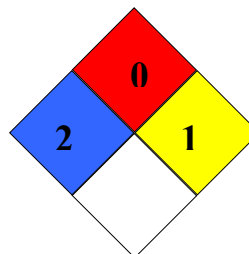
Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

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

Further information

NFPA Classification : Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 1



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".

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SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : pellets
or
flakes

Colour : White to off-white

Odour : Odorless

Safety data

Flash point : not applicable

pH : Not Available

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

: not applicable

Bulk density : 58 - 66 lb/ft3

Water solubility : soluble

Relative vapour density : not applicable

SECTION 10. STABILITY AND REACTIVITY

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

Materials to avoid : 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.

Additional advice:
hygroscopic

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute dermal toxicity : rabbit

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Dose: > 5,000 mg/kg

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

Eye irritation : Causes eye irritation.
May cause burns or external ulcers.

SECTION 12. ECOLOGICAL INFORMATION

Acute Fish toxicity : LC50
Species: Bluegill sunfish
Concentration: 8,350.00 - 10,650.00 mg/l
Test substance: Calcium chloride

LC50
Species: Oncorhynchus mykiss (rainbow trout)
Concentration: 4,236.00 mg/l
Exposure time: 96 h
Test substance: Potassium chloride

LC50
Species: Pimephales promelas (fathead minnow)
Concentration: 10,610.00 mg/l
Test substance: Sodium chloride

Toxicity to daphnia and other aquatic invertebrates. : LC50
Species: Daphnia magna (Water flea)
Concentration: 759.00 - 3,005.00 mg/l
Test substance: Calcium chloride

Immobilization
EC50
Species: Daphnia magna (Water flea)
Concentration: 590.00 mg/l
Exposure time: 24 h
Test substance: Potassium chloride

LC50
Species: Ceriodaphnia dubia (Water flea)
Concentration: 3,470.00 mg/l
Exposure time: 96 h
Test substance: Potassium chloride

LC50
Species: Daphnia magna (Water flea)
Concentration: 4,571.00 mg/l
Test substance: Sodium chloride

Toxicity to bacteria : Respiration inhibition
EC50
Species: Activated sludge
Dose: > 1,000.00 mg/l
Test substance: Calcium chloride
Method:

Respiration inhibition
IC50

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Species: Activated sludge
Dose: > 1,000.00 mg/l
Test substance: Sodium chloride
Method: OECD Test Guideline 209

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.
- 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

Not regulated for transport

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SECTION 15. REGULATORY INFORMATION

National regulatory information

OSHA Hazards : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SARA Hazard category : Acute Health Hazard

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

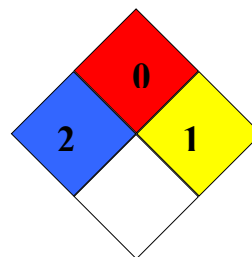
Additional advice :

FIFRA (Federal Insecticide, Fungicide, Rodenticide Act): This product is not a registered pesticide.

SECTION 16. OTHER INFORMATION

Further information

NFPA Classification : Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 1



HMIS Classification : Health Hazard: 2
Flammability: 0
Physical and chemical hazards: 0
PPI: Ask supervisor or safety specialist for handling instructions

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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. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of the seller, it is the user's obligation to determine the conditions of safe use of the products.