SPAGUARD® OXIDIZER ENHANCED SHOCK

Version: 1.1 Revision Date: 06/29/2012 Print Date: 12/26/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SPAGUARD® OXIDIZER ENHANCED SHOCK

Product Use Description: Recreational Water Product

Chemical nature: Chlorinated Isocyanurates

Registration number: 5185-475

Company: Bio-Lab, Inc.

BioGuard P.O. Box 300002 Lawrenceville, GA 30049-1002

Telephone: (800) 859-7946

CHEMTREC: (24 hours) 800-424-9300, 703-527-3887 Emergency telephone number:

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

06/29/2012

MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

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Colour: white Odour: Chlorine Form: granules

Hazard Summary

Corrosive Oxidizer

Causes serious eye damage.

Harmful if swallowed.

Harmful if absorbed through skin. Avoid breathing dust or vapor. May be harmful if inhaled. Causes skin irritation.

Do not get in eyes, on skin, or on clothing.

OSHA Hazards

CORROSIVE OXIDIZER

IRRITANT

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Potential Health Effects

Primary Routes of Entry : Skin contact

Eye contact Inhalation Ingestion

Aggravated Medical

: Respiratory disorders

Condition

Skin disorders

Inhalation : Causes respiratory tract irritation.

Skin : Causes skin irritation.

On contact with moisture, this material readily hydrolyzes to acid which may result

in burns if not promptly removed.

Eyes : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Chronic Exposure : This product contains a boron compound. This boron compound when fed to test

animals at very high doses, has shown reproductive and developmental toxicity. When this product is used according to label directions, the boron compound in

this product does not represent a practical risk to man.

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
Sodium Dichloro-S-Triazinetrione 2893-78-9	58.2 %
Trade secret 001	5 - 15 %
Boron salt	5 - 15 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.

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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.

Skin contact : Remove contaminated clothing and shoes.

Rinse immediately with plenty of water for at least 30 minutes.

Call a POISON CENTER or doctor/ physician.

Eye contact : Rinse immediately with plenty of water for at least 30 minutes.

Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.

Get medical attention immediately.

Ingestion : Call a physician or poison control centre immediately.

DO NOT induce vomiting unless directed to do so by a physician or poison

control center.

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 powder

Risk of violent reaction.

Further information : When ignited, will burn with the evolution of noxious chlorine containing gases.

Do not let fire burn.

Protective equipment and precautions for firefighters

Specific hazards during

firefighting

: Under extreme heat (greater than 400F), this product will evolve noxious chlorine

containing gases.

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

: Clean-up methods - large spillage

Using appropriate protective clothing and safety equipment, contain spilled

material.

Do not add water to spilled material.

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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

open to disperse any hazardous gases that may form.

Clean-up methods - small spillage

In case of spills, scoop up and place product in pool or spa water, then flood

spilled area with large volumes of water.

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

other product. Such use may cause a violent reaction leading to fire or explosion.

explosion.

Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and

explosion.

In case of contamination or decomposition, do not reseal container.

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 containers tightly closed in a dry, cool and well-ventilated place.

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.

For bottles: Store dry product in orginal tightly closed container when not in use.

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	<u>Further information</u>
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Boron salt	TWA	10 mg/m3	
	OSHA P0		
	1989-01-19		
	TWA	2 mg/m3	
	ACGIH		
	2007-01-01		
	STEL	6 mg/m3	
	ACGIH		
	2007-01-01		
	TWA	1 mg/m3	
	NIOSH REL		
	2005-09-01		

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

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 : granules Colour : white

Odour : Chlorine

Safety data

Flash point : Note: not applicable

pH : 5 - 5.5

Note: 1% Solution

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Melting point/range : 522 °F (272 °C)

Boiling point/boiling range : Note: not applicable

Vapour pressure : no data available

Density : 1.0 g/cm3

Water solubility : 250 g/l

Relative vapour density : Note: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.

Poor ventilation. Contamination

Moisture/high humidity.

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; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other

chemicals.

Hazardous decomposition

products

: Note: Chlorine containing gases can be produced.

nitrogen oxides (NOx)

Carbon oxides Sulphur oxides

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Sodium Dichloro-S-

Triazinetrione

: Acute toxicity estimate: 500 mg/kg

Method: Converted acute toxicity point estimate

Trade secret 001 : LD50: > 5,000 mg/kg

Species: rat

Boron salt : LD50: 3,440 - 4,580 mg/kg

Species: rat

Acute inhalation toxicity

Sodium Dichloro-S-Triazinetrione : LC50: 0.27 - 1.17 mg/l Exposure time: 4 h

Species: rat

Boron salt : LC50: 0.27 - 1.17 mg/l

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Skin irritation

Trade secret 001 : Result: No skin irritation

Eye irritation

Trade secret 001 : Result: Risk of serious damage to eyes.

12. ECOLOGICAL INFORMATION

Toxicity to fish

Trade secret 001 : LC50: 37 mg/l

Exposure time: 96 h

Species: Gambusia affinis (Mosquito fish)

static test LC50: 33.9 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

flow-through test

Toxicity to daphnia and other aquatic invertebrates
Trade secret 001 : LC50: ca. 6.57 mg/l

Exposure time: 48 h

Boron salt : > 100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

Boron salt : > 100 mg/l

Exposure time: 72 h Species: Algae

Bioaccumulation

Trade secret 001 : Remarks:

Bioaccumulation is unlikely.

Further information on ecology

Additional ecological : Toxic to fish.

information Harmful to aquatic life.

Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : 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.

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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

DOT

Not dangerous goods

IATA

UN number : 1759

Description of the goods : Corrosive solid, n.o.s.

(SODIUM DICHLORO-S-TRIAZINETRIONE)

Class : 8
Packing group : II
Labels : 8
Environmentally hazardous : yes

IMDG

UN number : 1759

Description of the goods : CORROSIVE SOLID, N.O.S.

(SODIUM DICHLORO-S-TRIAZINETRIONE)

Class : 8
Packing group : II
EmS Number 1 : F-A
EmS Number 2 : S-B

Marine pollutant : yes

SODIUM DICHLORO-S-TRIAZINETRIONE

Environmentally hazardous : yes

SODIUM DICHLORO-S-TRIAZINETRIONE

Not recommended for shipment by air

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road

and/or rail.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Corrosive, Oxidizer, Irritant

SARA 302 Reportable

Quantity

SARA 311/312 Hazards : Acute Health Hazard

Fire Hazard Reactivity Hazard

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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:

TSCA

Note: Listed

DSL This product contains the following components that are not on the Canadian DSL

nor NDSL lists.

AICS Not in compliance with the inventory

NZIoC On the inventory, or in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not 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

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3

Flammability: 0 Physical hazards: 1

PPI:Ask supervisor or safety specialist for handling instructions

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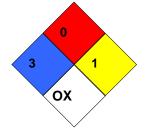
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NFPA Classification : Health hazard: 3

Fire Hazard: 0 Reactivity Hazard: 1

Specific hazards: OX Class 1

Oxidizer.



Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+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.

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