

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *SPAGUARD® CHLORINATING CONCENTRATE*

Product Use Description: Recreational Water Product

Chemical nature: Chlorinated Isocyanurates

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

+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Form: granules Colour: white Odour: Chlorine

Hazard Summary :
Corrosive
Oxidizer
Causes serious eye damage.
Harmful if absorbed through skin.
May be fatal if inhaled.
Causes respiratory tract irritation.
Harmful if swallowed.
Avoid breathing dust or vapor.
Do not get in eyes, on skin, or on clothing.

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

OSHA Hazards

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

Potential Health Effects

Primary Routes of Entry

: Eye contact
Skin contact
Inhalation
Ingestion

Aggravated Medical Condition

: Respiratory disorders
Skin disorders

Inhalation

: May be fatal if inhaled.
Causes respiratory tract irritation.

Skin

: Harmful if absorbed through skin.
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

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
troclosene sodium, dihydrate	51580-86-0	99 %

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 physician or poison control centre immediately.

Skin contact

: Remove contaminated clothing and shoes.

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

- Rinse immediately with plenty of water for at least 15 minutes.
Call a physician or poison control centre immediately.
- 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** : 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.
Do not give anything by mouth to an unconscious person.

Notes to physician

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

SECTION 5. FIRE-FIGHTING 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** : This product, if heated by an outside source to temperatures above 240 C (464 F), will undergo vigorous self-sustaining decomposition with the evolution of heat and dense noxious gases.
When ignited, will burn with the evolution of noxious chlorine containing gases.
Do not let fire burn.
Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard. Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidizing material for safe disposal. Bulging containers require extreme care. Contact the fire department.

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

Protective equipment and precautions for firefighters

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.

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 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".

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Avoid breathing vapors.
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 may 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

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

Requirements for storage areas and containers : Store in original container.
Temperature not to exceed 52 C (125F) for 24 hours.
Keep container closed when not in use.
Store in a cool, dry, well ventilated area away from heat or open flame.
Keep out of reach of children.
Keep away from animals.

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 : Goggles
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 : 6 - 7
at
77 °F (25 °C)
Note: 1% Solution

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

Melting point/range	: 464 - 482 °F (240 - 250 °C) Note: Decomposes
Boiling point/boiling range	: Note: not applicable
Vapour pressure	: Note: Not Available
Density	: 0.897 - 0.961 g/cm ³
Water solubility	: 280 g/l
Relative vapour density	: Note: Not 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.
Thermal decomposition	: 240 - 250 °C
Hazardous reactions	: Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 1,823 mg/kg Species: rat
Acute inhalation toxicity	: Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.
Acute dermal toxicity	: LD50: > 5,000 mg/kg Species: rat
Skin irritation	: Species: rabbit

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

Print Date: 11/06/2012

Remarks: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns.

Eye irritation : Remarks: Causes serious eye damage.

Sensitisation : Remarks: This product is not expected to be a skin sensitizer.

12. ECOLOGICAL INFORMATION

Toxicity to fish
troclosene sodium, dihydrate : LC50: 0.28 - 2.4 mg/l
Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other aquatic invertebrates.
troclosene sodium, dihydrate : LC50: 0.11 - 0.28 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Bioaccumulation
troclosene sodium, dihydrate : Remarks:
Bioaccumulation is unlikely.

Further information on ecology

Additional ecological information : Toxic to fish.
Toxic to aquatic organisms.
Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a 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.
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

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

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Pesticide Agency.
Do not contaminate ponds, waterways or ditches with chemical or used container.
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.
Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.

Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3077
Description of the goods : Environmentally hazardous substances, solid, n.o.s.
: ()
Class : 9
Packing group : III
ERG Code : 171

IATA

UN number : 3077
Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(sodium dichloro-s-triazinetrione dihydrate)
Class : 9
Packing group : III

IMDG

UN number : 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(sodium dichloro-s-triazinetrione dihydrate)
Class : 9
Packing group : III
EmS Letter 1 : F-A
EmS Letter 2 : S-F

Marine pollutant : yes
sodium dichloro-s-triazinetrione dihydrate

Not recommended for shipment by air
Limited Quantity exemption possible

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

Version: 1.1

Revision Date: 12/27/2010

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

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

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable Quantity :

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

TSCA

Note: Listed

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

Material Safety Data Sheet

SPAGUARD® CHLORINATING CONCENTRATE

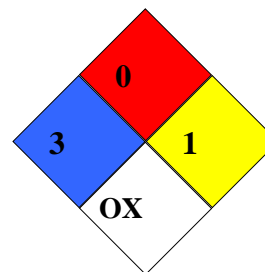
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NFPA Classification

: Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1
Specific hazards: OX Class 1
Oxidizer.



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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.