SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® KLEEN IT®*

Product Use Description: Recreational Water Product

Chemical nature: Preparation

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

DANGER!

Form: liquid Colour: yellow Odour: Lemon.

Hazard Summary :
Causes eye burns.
Causes serious eye irritation.
May be harmful if inhaled.
May cause skin irritation.
May cause irritation of respiratory tract.
Avoid breathing vapors.
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.

Potential Health Effects

Primary Routes of Entry : Skin contact

Inhalation
Ingestion
Eye contact

Inhalation : May cause irritation of respiratory tract.

Skin : May cause skin irritation.

Eyes : Causes eye burns.
Causes serious eye irritation.

Ingestion : May be harmful 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
Organic acid salt	15 - 25 %
Surfactant	1 - 5 %
Trade secret 036	< 2 %
Trade secret 080	< 5 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.
Call a POISON CENTER or doctor/ physician.

Skin contact : Wash off 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 : > 199.9 °F (> 93.3 °C)
Method: ASTM D 93

Fire fighting

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

Further information : There are no unusual fire and explosion hazards known.

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

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.
Soak up with inert absorbent 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.

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.
Mix only with water.
Do not mix with other chemicals.
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 tightly closed in a dry, cool and well-ventilated place.
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
Trade secret 080	TWA ACGIH 2007-01-01	100 ppm	
	STEL ACGIH 2007-01-01	150 ppm	
	TWA OSHA Z-1 1997-08-04	100 ppm 600 mg/m3	
	TWA OSHA P0 1989-01-19	100 ppm 600 mg/m3	
	STEL OSHA P0 1989-01-19	150 ppm 900 mg/m3	
	ST NIOSH REL 2005-09-01	150 ppm 900 mg/m3	
	TWA NIOSH REL 2005-09-01	100 ppm 600 mg/m3	

Engineering measures

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

Personal protective equipment

Eye protection	:	Goggles or Safety glasses with side-shields
Hand protection	:	For prolonged or repeated contact use protective gloves. Wear rubber gloves.
Skin and body protection	:	Remove and wash contaminated clothing before re-use.
Respiratory protection	:	If used in a confined area, respirator protection may be necessary.
Hygiene measures	:	Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	liquid
Colour	:	yellow
Odour	:	Lemon.

Safety data

Flash point	:	> 199.9 °F (> 93.3 °C) Method: ASTM D 93
pH	:	ca. 1
Freezing point	:	Note: no data available
Boiling point/boiling range	:	Note: no data available
Vapour pressure	:	no data available
Specific Gravity	:	1.052 at
Water solubility	:	Note: completely miscible
Relative vapour density	:	Note: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Remarks: High temperatures. Poor ventilation. Contamination
Materials to avoid	:	Remarks: Do not mix with other swimming pool/spa chemicals in their concentrated forms. Oxidizing agents Bases

Hazardous decomposition products	:	Note: Carbon oxides nitrogen oxides (NOx)
Hazardous reactions	:	Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Surfactant	:	LD50: 1,000 - 2,000 mg/kg Species: rat
Trade secret 036	:	LD50: 3,100 mg/kg Species: rat
Trade secret 080	:	LD50: > 2,000 mg/kg Species: rat

Acute inhalation toxicity

Trade secret 080	:	LC50: Exposure time: 7 h Species: rat

Acute dermal toxicity

Surfactant	:	LD50: > 2,000 mg/kg Species: rat
Trade secret 036	:	LD50: > 7,940 mg/kg Species: rabbit
Trade secret 080	:	LD50: > 2,000 mg/kg Species: rabbit

Skin irritation	:	Remarks: May cause skin irritation.
Eye irritation	:	Remarks: Causes eye burns. Risk of serious damage to eyes.

Sensitisation

Surfactant	:	Classification: Did not cause sensitization on laboratory animals.
Trade secret 036	:	Classification: Did not cause sensitization on laboratory animals.
Trade secret 080	:	Species: Human Classification: Did not cause sensitization on laboratory animals.

Teratogenicity

Trade secret 080	:	Species: rat Application Route: Inhalation

CMR effects

Trade secret 080	:	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 Reproductive toxicity: No toxicity to reproduction

12. ECOLOGICAL INFORMATION

Toxicity to fish

Surfactant	:	10 - 20 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) static test
Trade secret 036	:	LC50: > 1,600 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe) static test
Trade secret 080	:	LC50: > 5,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) static test

Toxicity to daphnia and other aquatic invertebrates

Surfactant	:	LC50: 1 - 10 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test
Trade secret 080	:	LC50: 1,919 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test

Toxicity to algae

Trade secret 080	:	EC50: > 969 mg/l Exposure time: 72 h Species: Algae Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Trade secret 080	:	NOEC: 0.5 mg/l Exposure time: 22 d Survival and growth Species: Daphnia magna (Water flea) flow-through test

Bioaccumulation

Trade secret 080	:	Bioconcentration factor (BCF): < 1

Biodegradability

Surfactant	:	Result: Readily biodegradable. > 75 %
Trade secret 080	:	aerobic

Result: Readily biodegradable.
79 %

Further information on ecology

Additional ecological information : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Recycle or dispose of container in trash.
Contaminated packaging : Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1760
Description of the goods : Corrosive liquids, n.o.s.
: (Urea, monohydrochloride)
Class : 8
Packing group : III
ERG Code : 154

IATA

UN number : 1760
Description of the goods : Corrosive liquid, n.o.s.
(Urea, monohydrochloride)
Class : 8
Packing group : III
Labels : 8
Environmentally hazardous : no

IMDG

UN number : 1760
Description of the goods : CORROSIVE LIQUID, N.O.S.
(Urea, monohydrochloride)
Class : 8
Packing group : III
EmS Number 1 : F-A
EmS Number 2 : S-B

Marine pollutant : no
Environmentally hazardous : no

ORM-D Consumer Commodity exemption possible
Limited Quantity exemption possible

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity :

pentasodium triphosphate 7758-29-4 5000 lbs

SARA 302 Reportable Quantity :

SARA 311/312 Hazards : 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:
TSCA

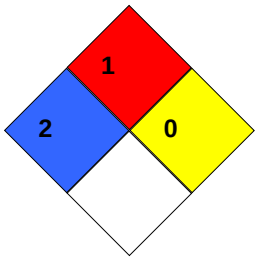
Note: Listed

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 2
Flammability: 1
Physical hazards: 0
PPI:Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 2
Fire Hazard: 1 Class IIIB
Combustible Liquid
Reactivity Hazard: 0



Other Emergency Phone Number

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

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