

# Material Safety Data Sheet

## BIOGUARD® STRIP KWIK®

Version: 1.1

Revision Date: 01/01/2014

Print Date: 03/05/2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® STRIP KWIK®*

Product Use Description: Recreational Water Product

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: clear Purple      Odour: odourless

Hazard Summary : Corrosive  
Causes skin burns.  
Causes eye burns.  
Harmful if swallowed.  
May cause respiratory tract irritation.  
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  
Eye contact  
Inhalation

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Inhalation : May cause respiratory tract irritation.

Skin : Causes skin burns.

Eyes : Causes eye burns.

Ingestion : Causes digestive tract burns.

Chronic Exposure : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
sodium hydroxide (Solution) 1310-73-2	5 - 10 %
(2-methoxymethylethoxy)propanol (Mixture of isomers) 34590-94-8	5 - 10 %
.alpha.-(Nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)phosphate 51811-79-1	< 5 %
diammonium dodecyl(sulphonatophenoxy)benzenesulphonate 67968-24-5	< 5 %
tetrasodium ethylenediaminetetraacetate 64-02-8	< 2 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

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

Skin contact : Rinse immediately with plenty of water for at least 15 minutes.  
If skin irritation persists, call a 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 : Immediately call a POISON CENTER or doctor/ physician.  
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.

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### 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.  
Avoid breathing vapors.  
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.

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### 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>
sodium hydroxide (Solution) 1310-73-2	C	2 mg/m3	
	ACGIH 2008-01-01		
	TWA	2 mg/m3	
	OSHA Z-1 1997-08-04		
	C	2 mg/m3	
	OSHA P0 1989-01-19		
	C	2 mg/m3	
	NIOSH REL 2005-09-01		
(2-methoxymethylethoxy)propanol (Mixture of isomers) 34590-94-8	TWA	100 ppm	
	ACGIH 2007-01-01		
	STEL	150 ppm	
	ACGIH 2007-01-01		
	TWA	100 ppm 600 mg/m3	
	OSHA Z-1 1997-08-04		
	TWA	100 ppm 600 mg/m3	
	OSHA P0 1989-01-19		
	STEL	150 ppm 900 mg/m3	
	OSHA P0 1989-01-19		
	ST	150 ppm 900 mg/m3	
	NIOSH REL 2005-09-01		
	TWA	100 ppm 600 mg/m3	
	NIOSH REL		

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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 : Remove and wash contaminated clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid  
Colour : clear  
Purple  
Odour : odourless

### Safety data

Flash point : > 199.9 °F (> 93.3 °C)  
Method: ASTM D 93  
pH : > 11.9  
Freezing point : Note: no data available  
Boiling point/boiling range : Note: no data available  
Vapour pressure : no data available  
Density : 1.05 g/cm<sup>3</sup>  
Water solubility : Note: completely miscible  
Partition coefficient: n-octanol/water : Note: no data available  
Viscosity, kinematic : Note: no data available

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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.  
Strong oxidizing agents  
Strong acids

Hazardous decomposition products : Note: Organic vapors.  
Carbon oxides

Hazardous reactions : Hazardous polymerisation does not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity  
(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : LD50: > 2,000 mg/kg  
Species: rat

Acute inhalation toxicity  
(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : LC50: Exposure time: 7 h  
Species: rat

Acute dermal toxicity  
(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : LD50: > 2,000 mg/kg  
Species: rabbit

Skin irritation : Remarks: Causes skin burns.

Eye irritation : Remarks: Causes eye burns.

Sensitisation  
(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : Species: Human  
Classification: Did not cause sensitization on laboratory animals.

Teratogenicity  
(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : Species: rat  
Application Route: Inhalation

CMR effects  
(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : 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

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Reproductive toxicity: No toxicity to reproduction

### 12. ECOLOGICAL INFORMATION

#### Toxicity to fish

(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : LC50: > 5,000 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
static test

#### Toxicity to daphnia and other aquatic invertebrates

(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : LC50: 1,919 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
static test

#### Toxicity to algae

(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : EC50: > 969 mg/l  
Exposure time: 72 h  
Species: Algae  
Growth inhibition

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : NOEC: 0.5 mg/l  
Exposure time: 22 d  
Survival and growth  
Species: Daphnia magna (Water flea)  
flow-through test

#### Bioaccumulation

(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : Bioconcentration factor (BCF): < 1

#### Biodegradability

(2-methoxymethylethoxy)propa  
nol (Mixture of isomers) : aerobic  
Result: Readily biodegradable.  
79 %

#### Further information on ecology

Additional ecological  
information : May be toxic to fish.  
May be toxic to aquatic organisms.  
Do not flush into surface water or sanitary sewer system.

### 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.

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

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Offer rinsed packaging material to local recycling facilities.

### SECTION 14. TRANSPORT INFORMATION

#### DOT

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

#### IATA

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

#### IMDG

UN number : 1760  
Description of the goods : CORROSIVE LIQUID, N.O.S.  
: (sodium hydroxide)  
Class : 8  
Packing group : III  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
  
Marine pollutant : no  
Environmentally hazardous : no

Not recommended for shipment by air  
Limited Quantity exemption possible  
ORM-D Consumer Commodity 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.

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

#### **EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

**SARA 302 Reportable Quantity** :



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

<b>US.TSCA</b>	On TSCA Inventory
<b>DSL</b>	This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.
<b>AICS</b>	Not in compliance with the inventory
<b>NZIoC</b>	Not in compliance with the inventory
<b>ENCS</b>	Not in compliance with the inventory
<b>KECI</b>	Not in compliance with the inventory
<b>PICCS</b>	Not in compliance with the inventory
<b>IECSC</b>	Not in compliance with the inventory
<b>TSCA list Information</b>	<u>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</u> <u>ZUS T12B</u>

### SECTION 16. OTHER INFORMATION

**Further information**

**HMIS Classification** : Health hazard: 3  
Flammability: 1  
Physical hazards: 0  
PPI: Ask supervisor or safety specialist for handling instructions

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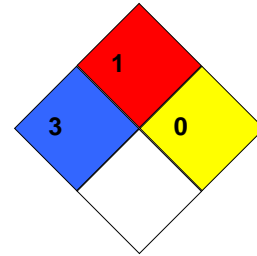
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**NFPA Classification** : Health hazard: 3  
Fire Hazard: 1 Class IIIB  
Combustible Liquid  
Reactivity Hazard: 0



### 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 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.