SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:  BIOGUARD® REMEDY BANISH™
Product Use Description:  Recreational Water Product
Registration number:  5185-474
Company:  Bio-Lab, Inc.
BioGuard
P.O. Box 30002
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:  800-996-7946

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by  Product Safety Department
01/17/2014

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Form:  liquid  Colour:  blue green  Odour:  mild acidic

Hazard Summary:  Harmful if swallowed.
Irritating to eyes.
Avoid breathing vapors.
Do not get in eyes, on skin, or on clothing.


Potential Health Effects

Primary Routes of Entry:  Eye contact
Ingestion

Inhalation:  Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Material Safety Data Sheet
BIOGUARD® REMEDY BANISH™

Version: 1.4 Revision Date: 01/17/2014 Print Date: 03/05/2014

SAP 6.0

SDS Number: 00000003646

Skin : Not expected to cause skin irritation under normal use conditions.
Eyes : Causes eye irritation.
Ingestion : 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

<table>
<thead>
<tr>
<th>Component / CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>copper (Fine-grained) 7440-50-8</td>
<td>3.3 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air. Give oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician.

Skin contact : Remove contaminated clothing and shoes. Rinse 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 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. Do not induce vomiting unless told to do so by the poison control center or doctor. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person.
SECTION 5. FIREFIGHTING MEASURES

Flammable properties
Flash point : Remarks: not applicable

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

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

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.
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.
Do not mix with other chemicals.
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.
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.
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
### Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components / CAS-No.</th>
<th>Value / Basis / Update</th>
<th>Control parameters</th>
<th>Further information</th>
</tr>
</thead>
<tbody>
<tr>
<td>copper (Fine-grained) 7440-50-8</td>
<td>TWA ACGIH 2008-01-01</td>
<td>1 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA OSHA P0 1989-01-19</td>
<td>1 mg/m³</td>
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<tr>
<td></td>
<td>TWA ACGIH 2008-01-01</td>
<td>0.2 mg/m³</td>
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<tr>
<td></td>
<td>TWA OSHA P0 1989-01-19</td>
<td>0.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA OSHA Z-1 2011-07-01</td>
<td>1 mg/m³</td>
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<td></td>
<td>TWA OSHA Z-1 2011-07-01</td>
<td>0.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA NIOSH REL 2005-09-01</td>
<td>1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### 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: No special protective equipment required. Wear as appropriate: Rubber gloves

Hygiene measures: Wash contaminated clothing before reuse.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form : liquid
Colour : blue green
Odour : mild acidic

Safety data
Flash point : Note: not applicable
pH : 2 - 3
Vapour pressure : no data available
Specific Gravity : 1.18 at
Water solubility : Note: no data available
Partition coefficient: n-octanol/water : Note: no data available
Viscosity, kinematic : Note: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Contamination

Materials to avoid : Remarks: Oxidizing agents
Do not mix with other swimming pool/spa chemicals in their concentrated forms.

Hazardous decomposition products : Note: Carbon oxides
Copper oxides
Sulphur oxides

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 3,501 mg/kg
Species: rat

Acute inhalation toxicity copper (Fine-grained) :

Acute dermal toxicity : LD50: > 5,000 mg/kg
Species: rabbit
Skin irritation: Species: rabbit
   Result: No skin irritation

Eye irritation: Remarks: Moderate eye irritation

Sensitisation copper (Fine-grained): Classification: Did not cause sensitization on laboratory animals.

CMR effects copper (Fine-grained): 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

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

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
UN number: 1760
Description of the goods: Corrosive liquids, n.o.s.
   (Copper Sulfate)
Class: 8
Packing group: III
ERG Code: 154
Material Safety Data Sheet

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

IMDG
UN number : 1760
Description of the goods : CORROSIVE LIQUID, N.O.S. (Copper Sulfate)
Class : 8
Packing group : III
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : yes Copper Sulfate
Environmentally hazardous : yes Copper Sulfate

Not recommended for shipment by air
Limited Quantity exemption possible
ORM-D Consumer Commodity exemption possible
Not regulated by DOT and TDG if shipped or transported in packaging less than 450 liters 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.

CERCLA Reportable Quantity : 78 lbs
  copper sulphate 7758-98-7 10 lbs

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW
SARA 302 Reportable Quantity

SARA 313 Components : copper sulphate 7758-98-7

The components of this product are reported in the following inventories:
US.TSCA : On TSCA Inventory
DSL
All components of this product are on the Canadian DSL list.

AICS
On the inventory, or in compliance with the inventory

NZIoC
On the inventory, or in compliance with the inventory

ENCS
Not in compliance with the inventory

KECI
On the inventory, or 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

TSCA list Information
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
ZUS_T12B
Not relevant

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification
Health hazard: 2
Flammability: 0
Physical hazards: 0

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

Other Emergency Phone Number
Material Safety Data Sheet

BIOGUARD® REMEDY BANISH™

Version: 1.4  Revision Date: 01/17/2014  Print Date: 03/05/2014

Latin America: Brazil +55 113 711 9144

All other countries +44 (0) 1235 239 670

Mexico: +52 555 004 8763

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