

# Material Safety Data Sheet

## BIOGUARD® SCALE INHIBITOR™

Version: 1.2

Revision Date: 09/02/2010

Print Date: 03/05/2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *BIOGUARD® SCALE INHIBITOR™*

Company: Bio-Lab, Inc.  
BioGuard  
P.O. Box 300002  
Lawrenceville, GA  
30049-1002  
  
Telephone: (800) 859-7946

Emergency telephone: 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: liquid      Colour: clear light yellow

Hazard Summary :  
Corrosive  
Causes eye burns.  
May cause skin irritation.  
May be harmful if swallowed.  
Avoid breathing vapors.  
Do not get in eyes, on skin, or on clothing.

#### Potential Health Effects

Inhalation : May cause irritation of respiratory tract.

Skin : May cause skin irritation.

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Eyes : Causes eye burns.  
Ingestion : May be harmful if swallowed.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component	CAS-No.	Weight percent
etidronic acid	2809-21-4	10 - 30 %
2-Butenedioic acid (2Z)-, homopolymer	26099-09-2	10 - 30 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation : Remove to fresh air.  
Obtain medical attention for any breathing difficulties.

Skin contact : Wash off with soap and plenty of water.  
Get medical attention if irritation develops and persists.

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 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.  
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 Available

#### Fire fighting

Suitable extinguishing media : Dry chemical  
Water

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Foam  
Carbon dioxide (CO2)  
Keep containers and surroundings cool with water spray.

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

### 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

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.  
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.  
Keep out of reach of children.  
Keep away from animals.

Other data : Stable under normal conditions.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

### Engineering measures

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Engineering measures : Use only with adequate ventilation.  
Local exhaust  
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.

Skin and body protection : Remove and wash contaminated clothing before re-use.

Respiratory protection : In processes where mists or vapors may be generated, a NIOSH/MSHA approved respirator is advised in the absence of proper environmental controls.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid  
Colour : clear  
light yellow

### Safety data

Flash point : Note: Not Available  
pH : < 3  
Freezing point : Note: Not Available  
Boiling point/boiling range : Note: Not Available  
Vapour pressure : Note: Not Available  
Density : Note: 9.08 lb/gal  
Water solubility : Note: completely miscible  
Relative vapour density : Note: Not Available

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### 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
- Hazardous decomposition products : Note: Carbon oxides
- Hazardous reactions : Hazardous polymerisation does not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity  
etidronic acid : LD50: > 2,000 mg/kg  
Species: rat
- Acute dermal toxicity  
etidronic acid : LD50: > 2,000 mg/kg  
Species: rabbit
- Skin irritation  
etidronic acid : Species: rabbit  
Result: slight irritation
- Eye irritation : Remarks: Causes eye burns.  
Do not get in eyes.

### 12. ECOLOGICAL INFORMATION

#### Further information on ecology

- Additional ecological information : Not expected to be acutely toxic to aquatic organisms.  
Do not allow material to contaminate ground water system.  
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 re-use empty containers. Empty containers should be taken

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to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### DOT

UN-Number : 1760  
Description of the goods : Corrosive liquids, n.o.s.  
(CONTAINS PHOSPHONIC ACID)  
Class : 8  
Packing group : III  
ERG Code : 154

#### IATA

UN-Number : 1760  
Description of the goods : Corrosive liquid, n.o.s.  
(CONTAINS PHOSPHONIC ACID)  
Class : 8  
Packing group : III

#### IMDG

UN-Number : 1760  
Description of the goods : CORROSIVE LIQUID, N.O.S.  
(CONTAINS PHOSPHONIC ACID)  
Class : 8  
Packing group : III  
EmS Letter 1 : F-A  
EmS Letter 2 : S-B  
Marine pollutant : no

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

### SECTION 15. REGULATORY INFORMATION

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

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

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SARA 302 Reportable  
Quantity :

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

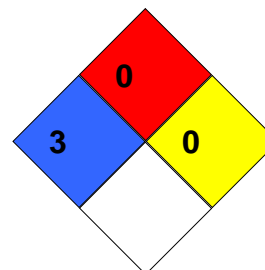
Note: Listed

### SECTION 16. OTHER INFORMATION

#### Further information

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

**NFPA Classification** : Health hazard: 3  
Fire Hazard: 0  
Reactivity Hazard: 0



#### 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

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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.