

**BIOGUARD® REMEDY ERASE® COPPER
STAIN REMOVER**

Version:	1.0
Revision Date:	07/27/2009
Print Date:	01/20/2010

The recipient of this Safety Data Sheet is urged to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet,(2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **BIOGUARD® REMEDY ERASE® COPPER STAIN
REMOVER**

Product Use Description: Swimming Pool Product

Chemical nature: Dry acids

Company: Bio-Lab, Inc.
BioGuard
P.O. Box 300002
Lawrenceville, GA
30049-1002

Emergency telephone: CHEMTREC (US Transportation) :
(800) 424-9300
(703) 527-3887
Poison Control Center (Medical) :
(877) 800-5553

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

Customer Care: (800) 859-7946

Prepared by: Product Safety Department
(US) +1 866-430-2775
(EU) +44 (0) 1753.603.000
Email: MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!

Form: crystalline
Colour: white
Odour: odourless

Corrosive
Causes eye burns.
Causes skin burns.
Harmful if swallowed.
Causes respiratory tract irritation.

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

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Avoid breathing dust or vapor.
Do not get in eyes, on skin, or on clothing.

Potential Health Effects

Primary Routes of Entry : Skin contact
Inhalation
Ingestion
Eye contact

Inhalation : Causes respiratory tract irritation.

Skin : Corrosive
Causes skin burns.

Eyes : Corrosive
Causes eye burns.

Ingestion : Harmful if swallowed.

Chronic Exposure : None known.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration
Sulfamic acid	5329-14-6	100 %

SECTION 4. FIRST AID MEASURES

First aid procedures

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

Skin contact : Rinse immediately with plenty of water for at least 15 minutes.
Remove contaminated clothing and shoes.
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.
Get medical attention.

Ingestion : Call a physician or poison control centre immediately.
Do not induce vomiting unless told to do so by the poison control center or

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doctor.
Have person sip a glass of water if able to swallow.
Do not give anything by mouth to an unconscious person.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : None

Protective equipment and precautions for firefighters

Suitable extinguishing media : Dry chemical
Foam
Carbon dioxide (CO2)
Water fog
Keep containers and surroundings cool with water spray.

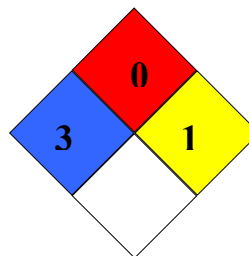
Hazardous decomposition products : Acid fumes.
nitrogen oxides (NOx)
Carbon oxides
Sulphur oxides
Ammonia gas may be liberated at high temperatures.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

Further information

NFPA Classification : Health Hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1



SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

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Methods for containment /
Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain 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.
Pick up and arrange disposal without creating dust.

Additional advice : Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Do not mix with other chemicals.
Use only clean and dry utensils.
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 containers tightly closed in a dry, cool and well-ventilated place.
Keep out of reach of children.
Keep away from animals.

Other data : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 : 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 : Remove and wash contaminated clothing before re-use.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : crystalline
Colour : white
Odour : odourless

Safety data

Flash point : None
pH : 1.2
1% Solution
Melting point/range : 401 °F (205 °C)
Boiling point/boiling range : 408 °F (209 °C)
Decomposes
Vapour pressure : Not Available
Density : 1.07 g/cm³
at 68 °F (20 °C)
Water solubility : soluble
Relative vapour density : Not Available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : High temperatures.
Poor ventilation.
Contamination
Moisture/high humidity.
Avoid creating dust.

Materials to avoid : Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Strong bases
Cyanides
Sulphides
Fuming nitric acid
Nitrates.
Strong oxidizing agents
Do not mix with other chemicals or any other substance.

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Hazardous decomposition products : Type: Hazardous decomposition products
Acid fumes.
nitrogen oxides (NOx)
Carbon oxides
Sulphur oxides
Ammonia gas may be liberated at high temperatures.

Hazardous reactions : Hazardous polymerisation does not occur.

Note : Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: 3,160 mg/kg

Skin irritation : rabbit
Corrosive

Eye irritation : rabbit
Corrosive

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : Expected to be toxic to aquatic life.
Do not contaminate surface water.

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.

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SECTION 14. TRANSPORT INFORMATION

DOT UN-Number : 2967
Proper shipping name : Sulfamic acid
Class : 8
Packing group : III

IATA UN-Number : 2967
Proper shipping name : Sulphamic acid
Class : 8
Packing group : III

IMDG UN-Number : 2967
Proper shipping name : SULPHAMIC ACID
Class : 8
Packing group : III

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

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SECTION 15. REGULATORY INFORMATION

National regulatory information

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

SARA Hazard category : Acute Health Hazard

US NJ RTK
(Component)

: US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]

hazardous substance

Sulfamic acid	5329-14-6	100 %
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The components of this product are reported in the following inventories:

TSCA

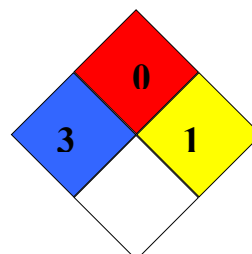
Additional advice :

FIFRA (Federal Insecticide, Fungicide, Rodenticide Act): This product is not a registered pesticide.

SECTION 16. OTHER INFORMATION

Further information

NFPA Classification : Health Hazard: 3
Fire Hazard: 0
Reactivity Hazard: 1



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HMIS Classification : Health Hazard: 3
Flammability: 0
Physical and chemical hazards: 1
PPI: Ask supervisor or safety specialist for handling instructions

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. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of the seller, it is the user's obligation to determine the conditions of safe use of the products.