

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

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: MINERAL SPRINGS® CELL CLEANER

Product Use Description: Recreational Water Product

Chemical nature: Hydrochloric Acid Solution.

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 Service: (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: liquid
Colour: clear
Odour: odourless

Poison
Harmful if swallowed.
May be fatal if swallowed.
Causes eye burns.
Causes skin burns.
May cause respiratory tract irritation.

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

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
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Avoid breathing vapors.
Do not get in eyes, on skin, or on clothing.
Do not ingest.

Potential Health Effects

- Primary Routes of Entry : Eye contact
Skin contact
Inhalation
Ingestion
- Inhalation : May cause respiratory tract irritation.
- Skin : Causes skin burns.
- Eyes : Causes eye burns.
- Ingestion : Harmful if swallowed.
May be fatal if swallowed.
- Chronic Exposure : None known.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

hydrogen chloride	7647-01-0	20 %
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SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : Remove to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
Call a physician or poison control centre immediately.
- Skin contact : Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 15 minutes.
Call a POISON CENTRE 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 5 minutes, then continue rinsing eye.
Call a physician or poison control centre immediately.
- Ingestion : Immediately call a POISON CENTRE or doctor/physician.
Have person sip a glass of water if able to swallow.
Do NOT induce vomiting.
Do not give anything by mouth to an unconscious person.

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : not applicable

Protective equipment and precautions for firefighters

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

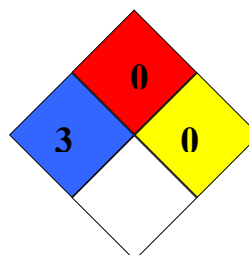
Hazardous decomposition products : Hydrogen, by reaction with metals
Inorganic vapors.
Acid fumes.

Specific hazards during fire fighting : Although not flammable, a latent fire or explosion hazard exists when product is in contact with certain metals or metallic surfaces, due to the formation of flammable hydrogen gas.

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.

Further information

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



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.

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

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 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value - Basis - Update	Control parameters	Further information
hydrogen chloride 7647-01-0	CEIL ; ACGIH 2003-01-01	2 ppm	A4: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. ACGIH 2003 Adoption
hydrogen chloride 7647-01-0	CEIL ; OSHA PO 1989-03-01	5 ppm 7 mg/m3	
hydrogen chloride 7647-01-0	CEIL ; OSHA P1 1993-06-30	5 ppm 7 mg/m3	

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.

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

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

Odour : odourless

Safety data

Flash point : not applicable

pH : < 1

Freezing point : < -40 °F (-40 °C)

Boiling point/boiling range : > 214.9 °F (101.6 °C)

Vapour pressure : < 2 hPa (2 hPa)

Density : 9.17 lb/gal
at 70 °F (21 °C)

Relative density : 1.1
at 70 °F(21 °C)

Bulk density : Not Available

Water solubility : completely miscible

Relative vapour density : Not Available

Evaporation rate : >1
(Butyl acetate = 1)

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : High temperatures.
Poor ventilation.
Contamination

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

- Materials to avoid : Do not mix with other chemicals.
Chlorine bleach
Ammonia
alkalines
Do not mix with other swimming pool/spa chemicals in their concentrated forms.
Metals
- Hazardous decomposition products : Type: Hazardous decomposition products

Hydrogen, by reaction with metals
Inorganic vapors.
Acid fumes.
- Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50 rabbit
Dose: 900 mg/kg
Toxicological information given is for the active ingredient.
- Acute inhalation toxicity : LC50 rat
Exposure time: 1 h
Dose: 3124 ppm
Toxicological information given is for the active ingredient.
- Skin irritation : May cause burns or external ulcers.
- Eye irritation : May cause burns or external ulcers.

SECTION 12. ECOLOGICAL INFORMATION

- 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

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

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 : 3264
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.
Proper technical name : (Hydrochloric Acid Solution)
Class : 8
Packing group : II

IATA UN-Number : 3264
Proper shipping name : Corrosive liquid, acidic, inorganic n.o.s.
Proper technical name : (Hydrochloric Acid Solution)
Class : 8
Packing group : II

IMDG UN-Number : 3264
Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S.
Proper technical name : (Hydrochloric Acid Solution)
Class : 8
Packing group : II

ORM-D Consumer Commodity exemption possible
Limited Quantity exemption possible

MINERAL SPRINGS® CELL CLEANER

Version:	1.2
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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. EPA CERCLA (Product) : US. EPA CERCLA Hazardous Substances (40 CFR 302)

Reportable quantity: 5,000 lbsListed

US SARA 302 (Product) : US. Environmental Protection Agency (EPA); Superfund Amendments and Reauthorization Act (SARA) Section 302 Extremely Hazardous Substances as amended by US Federal Register Final rules.

TPQ (threshold planning quantity): 5,000 lbs

Listed

US. Environmental Protection Agency (EPA); Superfund Amendments and Reauthorization Act (SARA) Section 302 Extremely Hazardous Substances as amended by US Federal Register Final rules.

Reportable quantity: 500 lbs

Listed

US SARA 313 (Product) : US. Environmental Protection Agency (EPA); Title III of Superfund Amendments and Reauthorization Act (SARA)of 1986 Section 313 Reportable Chemicals List, Toxic chemical listings and de minimis concentrations as amended by US Federal Register Final rules.

Listed

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

TSCA

DSL

Additional advice :

MSDS Number: BIOG_4500314

MINERAL SPRINGS® CELL CLEANER

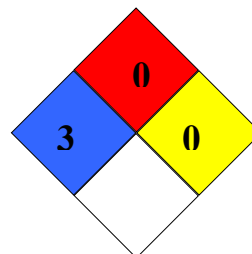
Version:	1.2
Revision Date:	08/12/2008
Print Date:	09/15/2009

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: 0



HMS Classification : Health Hazard: 3
Flammability: 0
Physical and chemical hazards: 0
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.