



7965 Silverton Ave. Suite 1309, San Diego,  
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# MATERIAL SAFETY DATA SHEET

Date Updated: 2009

## Section 1 - Products and Company information

Product Name: BcMag™ Quick Endotoxin Removing Magnetic particle

Company: Bioclone Inc  
Address: 7965 Silverton Ave. Suite 1309, San Diego, CA 92126

## Section 2 - Composition/Information on Ingredient

Hazardous/Non-hazardous Components

### Hazardous/Non-hazardous Components

Chemical Name	Case Number	%
BcMag™ magnetic beads	N/A	1-5
Distilled Water, conductivity or of similar purity	7732-18-5	10-60
Iron	7439-89-6	2-3
Silica	60676-86-0	1-2
Ethanol	64-17-5	10-25

## Section 3 - Hazards Identification

**Emergency Overview: Flammable; Vapours may be irritating to eyes, nose, throat and lung**

**Principle Routes of Exposure:**

### a. Potential Health effects

**Eyes: Irritating to eyes ; Skin: Irritating to skin in susceptible person ; Inhalation: May cause irritation of respiratory tract. Ingestion: Ingestion may cause irritation to Mucous Membranes**

### b. Specific effects

**Carcinogenic effects: N/A; Mutagenic effects: N/A; Reproductive toxicity: May cause adverse reproductive effects. Sensitization: N/A**

**HMIS:**

**Health: 1**

**Flammability: 2**

**Reactivity: 0**

## Section 4 - First Aid Measures

### A. INGESTION

If accidentally swallowed, wash out mouth with copious of amounts of water and call a physician.

### B. INHALATION

If inhaled, remove from exposure to fresh air. If breathing becomes difficult, get medical aid.

### C. SKIN

In case of contact, immediately flush skin with soap and copious amounts of water.

### D. EYE

In case of contact with eyes, immediately flush with copious amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelid. Get medical aid.

## Section 5 - Fire Fighting Measures

As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. **EXTINGUISHING MEDIA**

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

## Section 6 - Accidental Release Measures

Spills/leaks:

Clean up spill immediately with inert material (e.g. vermiculite, earth or sand), place in a suitable container.

## Section 7 - Handling and Storage

### HANDLING

Avoid inhalation. Avoid contact with eyes, skin, and clothing.

### STORAGE

Store at 4°C. Keep container tightly closed in a dry and well-ventilated place

### ENGINEERING CONTROLS

Facilities storing or utilizing this material should be equipped with safety shower and eye wash facility. Mechanical exhaust required.



## Section 8 - Exposure Controls, Personal Protection

### Exposure Limits

Chemicals	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH (TWA)	ACGIH (STEL)
BcMag Magnetic beads	N/A	N/A	N/A	N/A
Water, dis-tilled, conductivity or of similarity purity	N/A	N/A	N/A	N/A
Ethanol	1000 ppm 1900 mg/m <sup>2</sup>	N/A	1000 ppm	N/A

Engineering Measures: Ensure adequate ventilation

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Wear dust mask.

Hand: Wear protective gloves.

Eye: Wear appropriate chemical safety goggles or

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

Appearance: Brown

Property Value At Temperature or Pressure

Molecular Weight: N/A

pH: N/A

Bulk Density: N/A

Odor Threshold: N/A

Volatile%: N/A

VOC Content: N/A

Water Content: N/A

Solvent Content: N/A

Evaporation Rate: N/A

Viscosity: N/A

BP/BP Range: N/A

MP/MP Range: N/A

Freezing Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Saturated Vapor Conc: N/A

SG/Density: N/A

Surface Tension: N/A

Partition Coefficient: N/A

Decomposition Temp: N/A

Autoignition Temp N/A

Refractive Index: N/A

Optical Rotation: N/A

Miscellaneous Data: N/A

Solubility: N/A

Flash Point: N/A

Explosion Limits: N/A

Flammability: N/A

N/A =data not available

## Section 10 - Stability and Reactivity

CHEMICAL STABILITY: Stable

Condition to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization has not been reported.

## Section 11 - Toxicological Information

Skin: If contacted, it may cause skin irritation.

Eye: If contacted, It may cause eye irritation.

Inhalation: If inhaled, it may be harmful.

Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: it may be harmful if swallowed.

Chemicals	LD50 (oral, rat/ mouse)	LD50 (dermal rat/mouse)	LD50 (inhalation, rat/ mouse)
BcMag Magnetic beads	N/A	N/A	N/A
Water, dis-tilled, conductivity or of similarity purity	N/A	N/A	N/A
Ethanol	11500-7060 mg/ kg (rat)	N/A	64,000 rpm/4hr

## Section 12 - Ecological Information

Not data available

## Section 13 - Disposal Considerations

Follow all federal, state, and local environmental regulations.

Call a licensed professional waste disposal service to dispose of this material.

## Section 14 - Transport Information

US DOT

Proper Shipping Name: None

Hazardous class: N/A

Susidiary Class: N/A

Packing Grou: N/A

UN-No: N/A



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## Section 15 - Regulatory Information

### International Inventories

Chemical Name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
BcMag Magnetic beads	N/A	N/A	N/A	N/A	N/A	v
Water, dis-tilled, conductivity or of similarity purity	Listed	Listed	N/A	Listed	N/A	Listed
Ethanol	Listed	Listed	Listed	Listed	N/A	Listed

## UNITED STATES REGULATORY INFORMATION

### SARA 313

This product contains the following toxic chemical(s) subject to the notification of section 313 of Title III of the superfund amendments and reauthorization act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories.

Chemical Name	Cas Number	Weight %
Ethanol	64-17-5	10-20

## CANADA REGULATORY INFORMATION

### WHMIS Classification:

B2 Flammable Liquid  
D2B Toxic Materials

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

## Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

### WARRANTY

The information above is believed to be accurate based on the best information available to us but does not purport to be all inclusive and shall be only used as a guide. We make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use, handling and contact. In no way shall the company be liable for any losses, claims, or damages of any third party or for lost profits or any special, direct, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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