



## Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200

Miraclear Blue

October 1, 2013

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 PRODUCT IDENTIFIER

**Product/Trade Name:** Miraclear Blue (MCB001 & MCB002)

#### 1.2 INTENDED USE OF THE PRODUCT

Pool and spa liquid clarifier.

#### 1.3 NAME, ADDRESS, TELEPHONE OF MANUFACTURER

Lo-Chlor L.L.C.  
5841 Powerline Road, Suite 202  
Ft. Lauderdale, FL 33309  
800-491-9810  
Fax: 954-491-2311  
www.lo-chlor.com

#### 1.4 EMERGENCY TELEPHONE NUMBER

Emergency number: 1-800-424-9300  
For chemical emergency, spill, leak, fire, exposure, or accident, call Chemtrec, day or night

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**GHS-US Classification:**

H320 Causes eye irritation.  
H315 Causes skin irritation.

#### 2.2 LABEL ELEMENTS

**GHS-US Label Elements**  
**Hazard pictograms (GHS-US)**



GHS07 Warning

**Signal word:** Warning

**Hazard statements:**

H320 Causes eye irritation.  
H315 Causes skin irritation.

**Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P264 Wash thoroughly after handling.



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P281 Use personal protection equipment as required.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

### 2.3 OTHER HAZARDS

#### Results of PBT and vPvB assessment

**PBT:** Not applicable

**vPvB:** Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 CHEMICAL CHARACTERIZATION

**Mixtures:** Mixture of the substances listed below.

Chemical Name	Product Identifier	%	GHS-US classification
Trade Secret		48% - 50%	H320, H315
Water		50% - 52%	

## SECTION 4: FIRST-AID MEASURES

### 4.1 DESCRIPTION OF FIRST-AID MEASURES

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid after inhalation:** Supply fresh air and treat symptomatically. If symptoms develop, seek medical advice.

**First-aid after skin contact:** Immediately wash with soap and water and rinse thoroughly. If irritation develops, seek medical advice.

**First-aid after eye contact:** Immediately rinse open eye with plenty of water. If symptoms develop, seek medical advice.

**First-aid after swallowing:** Do not induce vomiting without medical advice. If conscious, wash out mouth and drink large quantities of water. If symptoms develop, seek medical advice.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS/BOTH ACUTE AND DELAYED

May cause eye and skin irritation with prolonged contact.

### 4.3 INFORMATION FOR DOCTORS

Treat symptomatically and supportively. No specific antidote.

### 4.4 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT NEEDED

If medical advice is needed have product container or label at hand.

No further relevant information available.



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### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

**Suitable extinguishing agents:** This product is not expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire. Water mist may be used to cool closed containers.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Under fire conditions, may evolve oxides of carbon (COx), nitrogen (NOx) ammonia and hydrogen chloride (HCl). Move container from fire area if it can be done without risk. Avoid inhalation of material or by-products. Stay upwind and keep out of low areas.

#### 5.3 ADVICE FOR FIREFIGHTERS

**Protective equipment:** Wear a full face positive-pressure self-contained breathing apparatus and protective suit. Exercise caution when fighting any chemical fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**General measures:** Isolate area. Keep unnecessary personnel away. Keep out of low areas. Use appropriate personal protection equipment (PPE). Handle in accordance with good industrial hygiene and safety practices.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Dilute with plenty of water. This product is toxic to fish. Do not allow to enter lakes, ponds, streams, waterways or public water supplies.

#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb and/or contain spills with liquid-binding material like sand, diatomite, acid binders, universal binders or sawdust to soak up the product and place into a container for later disposal. Dispose of contaminated material as waste according to Section 13.

#### 6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.

See Section 8 for information on exposure control and personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Precautions for safe handling:** Open and handle receptacle with care. Avoid contact with skin and eyes. Ensure good ventilation at the workplace.

**Hygiene measures:** Use appropriate personal protection equipment (PPE). Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.



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### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage conditions:** Keep receptacle tightly sealed in a cool, dry area out of direct sunlight.

Keep separated from oxidizers. Protect product from freezing.

**Incompatible products:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

### 7.3 SPECIFIC END USE(S)

No further relevant information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

**Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as a basis.

### 8.2 EXPOSURE CONTROLS

**Appropriate engineering controls:** Provide adequate ventilation or other engineering controls. Eyewash stations and safety showers are recommended in the work-station location.

**Personal protective equipment:**



**Hand protection:** Wear chemically resistant protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing to minimize skin contact.

**Respiratory protection:** If irritation is experienced, use respiratory filter device.

**General protection:** When using, do not eat, drink or smoke. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Viscous liquid
Color	:	Blue
Odor	:	Odorless
Odor threshold	:	Not determined
pH	:	6.0 – 7.0
Melting point	:	Not determined
Freezing point	:	32° F
Boiling point	:	≥212° F



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Flash point	:	≥200° F
Auto-ignition temperature	:	Product is not self-igniting
Decomposition temperature	:	Not determined
Flammability (solid, gaseous)	:	Not applicable
Specific gravity	:	1.00 - 1.04
Solubility	:	Complete

#### 9.2 OTHER INFORMATION

No further relevant information available.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

No dangerous reactions known.

#### 10.2 CHEMICAL STABILITY

Product is stable under normal conditions.

#### 10.3 THERMAL DECOMPOSITION/CONDITIONS TO AVOID

No decomposition if used according to specifications.

#### 10.4 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

#### 10.5 CONDITIONS TO AVOID

Freezing temperatures.

#### 10.6 INCOMPATIBLE MATERIALS

Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

#### 10.7 HAZARDOUS DECOMPOSITION PRODUCTS

Under fire conditions, may evolve oxides of carbon (CO<sub>x</sub>), nitrogen (NO<sub>x</sub>) ammonia and hydrogen chloride (HCl).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

#### 11.2 PRIMARY IRRITANT EFFECT

**On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

#### 11.3 ADDITIONAL TOXICOLOGICAL INFORMATION

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

#### 11.4 CARCINOGENIC CATEGORIES

**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

**NTP (National Toxicology Program):** None of the ingredients is listed.



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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

This product is toxic to fish.

#### 12.2 PERSISTENCE AND DEGRADABILITY

No further relevant information available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

This material is not expected to bioaccumulate.

#### 12.4 MOBILITY IN SOIL

No further relevant information available.

#### 12.5 ADDITIONAL ECOLOGICAL INFORMATION

No further relevant information is available.

#### 12.6 OTHER ADVERSE EFFECTS

No further relevant information available

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

**Waste disposal recommendations:** Dispose of contents/container in accordance with local, regional, and national regulations. Do not allow product to reach sewage system.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN NUMBER

Non-hazardous

#### 14.2 PROPER SHIPPING NAME

DOT Non-regulated material

ADR

IATA

IMDG

#### 14.3 DOT PACKING GROUP

Not applicable

#### 14.4 HAZARD CLASS

Not applicable

### SECTION 15: REGULATORY INFORMATION

#### 15.1 SARA

**Section 355 (Extremely hazardous substances):** None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.

#### 15.2 TSCA (Toxic Substances Control Act)

All ingredients are listed.



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### 15.3 PROPOSITION 65

**Chemicals known to cause cancer:** No ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:** No ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:** No ingredients are listed.

**Chemicals known to cause developmental toxicity:** No ingredients are listed.

### 15.4 CARCINOGENIC CATEGORIES

**EPA (Environmental Protection Agency):** No ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH):** No ingredients are listed.

**NIOSH-Ca(National Institute for Occupational Safety and Health):** No ingredients are listed.

## SECTION 16: OTHER INFORMATION

### 16.1 CLASSIFICATION SYSTEM

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

#### NFPA ratings (0-4)



Health = 1

Fire = 1

Reactivity = 0

#### HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	1
REACTIVITY	0

Health = 1

Fire = 1

Reactivity = 0

This information is based on our present knowledge and on data considered to be accurate. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the user thereof. Lo-Chlor L.L.C assumes no responsibility for personal injury or property damage to users or third parties caused by the material. User assumes all risks associated with the use of this material.