

2190

**MATERIAL SAFETY DATA SHEET**

Date Issued: 07/16/2008

MSDS No: Robelle Black Algaecide

Date Revised: 09/11/2008

Revision No: 1

**Robelle Black Algaecide****1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Robelle Black Algaecide**GENERAL USE:** Algaecide**ACTIVE INGREDIENT(S):** Poly[oxyethylene (dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]**DISTRIBUTOR**

Robelle Industries, Inc.

131 Tosca Dr.

Stoughton MA 02072

**Product Stewardship:** (781) 297-7422**2. HAZARDS IDENTIFICATION****POTENTIAL HEALTH EFFECTS****EYES:** May cause eye irritation.**SKIN:** May cause skin irritation. Non-sensitizer for skin.**INGESTION:** Not expected to be a primary route of exposure.**INHALATION:** May cause irritation. Effects will depend on concentration and length of time of exposure.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****CARCINOGENICITY:** Not listed by NTP, IARC or OSHA.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Poly[oxyethylene (dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]	60	031512-74-0

**4. FIRST AID MEASURES****EYES:** Hold eyelids open and flush with a copious amounts of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist.**SKIN:** Immediately wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.**INGESTION:** DO NOT INDUCE VOMITING. Rinse mouth with plenty of water or milk. Slowly give 1 to 2 glasses of water

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/16/2008

MSDS No: Robelle Black Algaecide

Date Revised: 09/11/2008

Revision No: 1

## Robelle Black Algaecide

or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**INHALATION:** Immediately move person to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek immediate medical treatment.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Available

**FLAMMABLE LIMITS:** 0 to 0

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical.

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide may be formed upon burning.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material with absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. Flushing residual material to an industrial sewer may be acceptable.

### 7. HANDLING AND STORAGE

**STORAGE:** Avoid storing near anionic polymers.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/16/2008

MSDS No: Robelle Black Algaecide

Date Revised: 09/11/2008

Revision No: 1

## Robelle Black Algaecide

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Poly[oxyethylene (dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]	TWA	[1]	[1]	[1]	[1]
<b>Footnotes:</b> 1. Not established.					

**ENGINEERING CONTROLS:** Local exhaust.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical safety glasses or goggles.

**RESPIRATORY:** None normally required.

**PROTECTIVE CLOTHING:** Body protective clothing and shoes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild.

**APPEARANCE:** Blue liquid.

**pH:** 6.0 to 8.0

**VAPOR PRESSURE:** Not Available

**VAPOR DENSITY:** 1.15 g/cm<sup>3</sup>

**BOILING POINT:** > 100°C (212°F)

**FREEZING POINT:** < -16°C (3.2°F)

**FLASHPOINT AND METHOD:** Not Available

**SOLUBILITY IN WATER:** Easily soluble in hot and cold water.

**EVAPORATION RATE:** Not Available

**SPECIFIC GRAVITY:** 1.125

## 10. STABILITY AND REACTIVITY

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/16/2008

MSDS No: Robelle Black Algacide

Date Revised: 09/11/2008

Revision No: 1

## Robelle Black Algacide

**STABILITY:** Stable under normal conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide may be formed upon burning.

**INCOMPATIBLE MATERIALS:** Anionic polymers.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** 1951 g/kg (rat)

**INHALATION LC<sub>50</sub>:** 2.9 mg/L (4 hour - rat)

### 12. ECOLOGICAL INFORMATION

**AQUATIC TOXICITY (ACUTE):** LC50 = 0.37 mg/l - 48 hours (Invertebrate)

LC50 = 0.26 mg/l - 96 hours (Fathead minnow)

LC50 = 0.21 mg/l - 96 hours (Bluegille sunfish)

LC50 = 0.047 mg/l - 96 hours (Rainbow trout)

LC50 = >600 mg/l - 96 hours (Sheepshead minnow)

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with applicable local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not Regulated.

### 15. REGULATORY INFORMATION

#### UNITED STATES

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/16/2008

MSDS No: Robelle Black Algaecide

Date Revised: 09/11/2008

Revision No: 1

## Robelle Black Algaecide

### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** No components of this product are present above the de minimus levels.

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All components of this product may not be listed in the TSCA Inventory. EPA registered pesticides are exempt from the requirements of TSCA.

**CALIFORNIA PROPOSITION 65:** There are no chemicals present known to the State of California to cause cancer.

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This is an EPA-registered product.

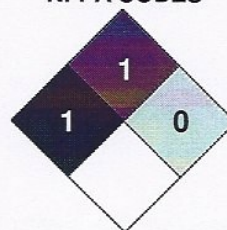
## 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the July 16, 2008 MSDS.

### HMIS RATING

HEALTH:	1
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

### NFPA CODES



**MANUFACTURER DISCLAIMER:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).