

MATERIAL SAFETY DATA SHEET

Date Issued: 01/14/2010

MSDS No: Robelle 3 Month Algaecide

3 Month Algaecide

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3 Month Algaecide**GENERAL USE:** Algaecide**PRODUCT DESCRIPTION:** Copper algaecide**DISTRIBUTOR**

Robelle Industries, Inc.

131 Tosca Dr.

Stoughton, MA 02072

Product Stewardship: (781) 297-7422

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW**IMMEDIATE CONCERNS:** Irritant to eyes and skin. Harmful if ingested. This material is harmful to fish.**POTENTIAL HEALTH EFFECTS****EYES:** Irritant. May cause watering of the eye and blurred vision. Contamination of the eyes can result in permanent injury.**SKIN:** May cause skin irritation. Repeated or prolonged skin contact may lead to skin burns and allergic contact dermatitis.**INGESTION:** Swallowing can result in burning and metallic taste in mouth, irritation of the mouth, esophagus and stomach, vomiting, diarrhea, abdominal pain, jaundice and kidney failure, dizziness, faintness, loss of consciousness and death.**INHALATION:** Not normally an inhalation hazard due to low vapor pressure.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Copper Sulfate Pentahydrate	12	7758-99-8	--
Trade Secret (OSHA Hazardous)	28		
Other non-hazardous ingredients	60		

4. FIRST AID MEASURES

EYES: Immediately flush eyes with copious amounts of water for at least 15 minutes, while lifting upper and lower eyelids occasionally. Call a physician immediately.**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. Slowly give 1 to 2 glasses of water. Never

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give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION: Remove to fresh air. If effects occur, contact a physician.

NOTES TO PHYSICIAN: Treat symptomatically. Corrosive material may cause stricture. If lavage is performed, suggest endotracheal and/or esophagosopic control.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not combustible.

FLAMMABLE LIMITS: 0 to 0

GENERAL HAZARD: Not combustible, however following evaporation of aqueous component, residual could burn if ignited.

EXTINGUISHING MEDIA: Water fog or fine water spray, dry chemicals, carbon dioxide, sand or foam.

HAZARDOUS COMBUSTION PRODUCTS: Decomposes on heating emitting toxic fumes including those of NOX.

FIRE FIGHTING EQUIPMENT: Firefighters should wear self-contained breathing apparatus if there exists a risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge into drains or waterways.

GENERAL PROCEDURES: Clear area of all unprotected personnel. Avoid inhalation of vapor or mist. Increase ventilation. Slippery, use caution. Wear protective equipment to prevent skin and eye contamination.

7. HANDLING AND STORAGE

HANDLING: Exercise normal handling precautions for liquids.

STORAGE: Store in tightly closed containers. Do not pack in unlined steel drums. Keep away from strong acids. Keep away from metals.

STORAGE TEMPERATURE: Protect from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
			EXPOSURE LIMITS	
			ACGIH TLV	
Chemical Name			ppm	mg/m ³
Trade Secret (OSHA Hazardous)			TWA	5

ENGINEERING CONTROLS: General ventilation is adequate.

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PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For operations where eye contact can occur, wear chemical splash-proof goggles or face shield.

SKIN: PVC Gloves.

RESPIRATORY: None normally required.

PROTECTIVE CLOTHING: For operations where skin contact can occur, wear coveralls.

WORK HYGIENIC PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Blue liquid.

pH: 7.5 to 8.5

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A.

FREEZING POINT: -5.6°C (21.9°F)

FLASHPOINT AND METHOD: Not combustible.

SOLUBILITY IN WATER: Miscible

SPECIFIC GRAVITY: 1.080 to 1.21

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Protect from freezing. Keep away from metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

INCOMPATIBLE MATERIALS: Strong acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

SKIN ABSORPTION: > 2000 mg/kg (rabbits)

ORAL LD₅₀: 4500 mg/kg (rat)

INHALATION LC₅₀: 2000 mg/Kg

Notes: No effect.

12. ECOLOGICAL INFORMATION

COMMENTS: None available.

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13. DISPOSAL CONSIDERATIONS

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

RCRA/EPA WASTE INFORMATION: This product does meet the criterial of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All components are listed on the TSCA Inventory.

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

16. OTHER INFORMATION

REVISION SUMMARY: New MSDS

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