

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Magic MINZ
CAS #	Mixture
Product Use	Swimming Pool Algaecide
Manufacturer information	MyAqua Inc. 4056 Meadowbrook Dr Unit 114 London, Ontario N6L 1E2 Website: www.myaqua.ca Email: info@myaqua.ca Emergency Phone: (Canutec) 613-996-6666

2. Hazards Identification

Emergency overview	Keep out of reach of children. Do not get in eyes or on skin. Wear safety glasses. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing. Harmful if swallowed. Do not mix with other chemicals. DO NOT allow adults, children or pets to enter the treated area until dusts have settled.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Not available
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Copper(ii) Sulfate	7758-98-7	10 - 30

Composition comments Not applicable to PCP products. Refer to product label for active ingredient content.

4. First Aid Measures

First aid procedures	
Eye contact	If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
Inhalation	If inhaled: Move the person toward a source to fresh air. If the person is not breathing, call 911 or an ambulance, then apply artificial respiration, preferably on mouth to mouth, if possible. Call a center anti-poison or a doctor for advice on the treatment.
Ingestion	If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Notes to physician	Treat patient symptomatically.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS criteria
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of sulphur. Copper oxides
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental release measures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Contact the manufacturer and the provincial regulatory agency in case of a spill, or for clean-up of spills.

7. Handling and storage

Handling	Keep out of reach of children. Do not get in eyes or on skin. Wear safety glasses. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing. Harmful if swallowed. Do not mix with other chemicals. DO NOT allow adults, children or pets to enter the treated area until dusts have settled.
Storage	Keep container closed when not in use. Keep in dry, cool place out of reach of children.

8. Exposure controls/Personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Copper(ii) Sulfate (CAS 7758-98-7)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

Exposure limits	See above
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

9. Physical and chemical properties

Appearance	Granular powder
Colour	Light blue
Form	Granules
Odour	Odourless
Odour threshold	Not available.
Physical state	Solid.
pH	6.3 (10% solution)
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation Rate	Not available
Flash point	Not available.
Auto-ignition temperature	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Solubility (Water)	Soluble
Relative density	12.4 lbs/gal
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and reactivity

Reactivity	May react with metals. Copper Sulfate Pentahydrate is incompatible with magnesium, strong bases, alkalines, phosphates, acetylene, hydrazine, and zirconium. Copper Sulfate Pentahydrate can be corrosive to aluminum. Copper salts, including Copper Sulfate may react to form explosive acetylides when in contact with acetylene or nitromethane. Contact with reducing agents, can cause a vigorous reaction, especially in solution.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizers. Strong bases. Reducing agents. Metals.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of sulphur. Copper oxides

11. Toxicological information

Toxicological data

Components	Species	Test results
Copper(ii) Sulfate (CAS 7758-98-7)		
Acute		
<i>Dermal</i>		
LD50	Mouse	369 mg/kg
	Rabbit	> 1000 mg/kg

Components	Species	Test results
	Rat	> 2000 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD100	Mouse	50 mg/kg
LD50	Mouse	369 mg/kg
	Rabbit	125 mg/kg
	Rat	300 mg/kg

Effects of acute exposure

Eye contact	May cause irritation.
Skin contact	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Non-hazardous by WHMIS criteria.
Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components	Species	Test results
Copper(ii) Sulfate (CAS 7758-98-7)		
Crustacea	EC50 Daphnia	0.007 mg/L, 48 Hours
Aquatic		
Crustacea	EC50 Water flea (Daphnia magna)	0.006 - 0.007 mg/L, 48 hours
Fish	LC50 Guppy (Poecilia reticulata)	0.016 - 0.048 mg/L, 96 hours

Persistence and degradability	Not available.
Bioaccumulation/accumulation	Not available
Mobility in environmental media	Not available.
Environmental effects	Not available.
Aquatic toxicity	Not available.
Partition coefficient	Not available.
Chemical fate information	Not available.

13. Disposal considerations

Disposal instructions	Rinse container thoroughly before discarding. Do not reuse empty container. Offer for recycling if available, or dispose in accordance with local and provincial regulations.
Waste from residues / unused products	For information on unused, unwanted product, contact the manufacturer or the provincial regulatory agency.
Contaminated packaging	Not available

14. Transport information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN3077
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name Copper sulfate
Hazard class 9
Packing group III
Special provisions 16, 99
Packaging exceptions <5 kg - Limited Quantity

TDG



15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Copper(ii) Sulfate (CAS 7758-98-7) 1 %

WHMIS classification Exempt - Registered product - (PCP 31532)

Inventory Status

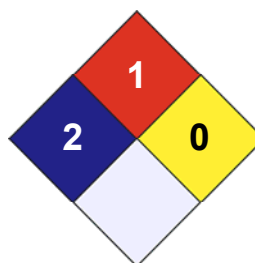
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Further information

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

Issue date	12-December-2016
Effective date	15-March-2015
Expiry date	31-May-2017
Prepared by	Dell Tech Laboratories Ltd. Phone: (519) 858-5021
Other information	This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.