

Safety Data Sheet CHEM-AQUA 40215

Supersedes Date 08/16/2016

Issuing Date 07/14/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 40215
Recommended use Biocidal product
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code C668
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless - Yellow

Physical state Liquid

Odor Pungent

GHS

Classification

Physical Hazards

Corrosive to Metals***

Category 1***

Health Hazard

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin sensitization

Category 1***

Category 1***

Category 1***

Other hazards

None

Labeling

Signal Word

DANGER***



Hazard statements

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H290 - May be corrosive to metals***

Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace
P260 - Do not breathe the mist
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333 + P313 - If skin irritation or rash occurs, get medical attention
P363 - Wash contaminated clothing before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P406 - Store in a corrosion-resistant container.
P390 - Absorb spillage to prevent damage.
P501 - Dispose of contents and container in accordance with applicable local regulations.***

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Magnesium nitrate***	10377-60-3	1-5
5-Chloro-2-methyl-4-isothiazolin-3-one***	26172-55-4	1-5
2-Methyl-4-isothiazolin-3-one***	2682-20-4	0.1-1.0

*The exact percentage (concentration) of composition has been withheld as a trade secret***

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe mist.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician or poison control center immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Contact a poison control center.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Call a physician or poison control center immediately. Give small amounts of water to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed. Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point	Does not flash	Method	No data available
Flammability Limits in Air %:	Hydrogen, by reaction with metals.	Upper:	75
		Lower:	4
Suitable Extinguishing Media	Foam. Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapors. Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.		
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
NFPA	Health 3	Flammability 0***	Instability 0
HMIS -	Health 3	Flammability 0***	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Neutralize with lime milk or soda and flush with plenty of water.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe mist.***			
Storage	Keep out of the reach of children. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.			
Storage Temperature	Minimum	*** 34 °F*** / *** 1*** °C***	Maximum	*** 131 °F*** / *** 55*** °C***
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	Non viscous
Color	Colorless - Yellow	Odor	Pungent
Odor Threshold	Not applicable	Appearance	Transparent
pH	2	Specific Gravity	1.02
Evaporation Rate	0.58 (Butyl acetate=1)	Percent Volatile (Volume)	97.8***
VOC Content (%)	0	VOC Photoreactive (Y/N)	No
VOC Content (g/L)	0	Vapor Pressure	17.04 mmHg @ 70°F
Vapor Density	0.6 (Air = 1.0)	Solubility	Completely soluble
n-Octanol/Water Partition	No data available	Melting Point/Range	No data available
Decomposition Temperature	No data available	Boiling Point/Range	*** 212 °F*** / *** 100*** °C***
Flammability (solid, gas)	No data available		
Flash Point	Does not flash	Method	No data available
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Hydrogen, by reaction with metals	Upper: 75 Lower: 4	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known.
Incompatible Products	Strong oxidizing agents, Reducing agents, Amines, Powdered metals, Light and/or alkaline metals, Contact with metals liberates hydrogen gas.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry Skin Absorption.

Acute Effects:

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns. May cause allergic skin reaction.
Inhalation	Harmful by inhalation. Causes burns. Risk of serious damage to the lungs (by inhalation).
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Components of the product create formation of methemoglobin.

Chronic Toxicity May cause sensitization by skin contact. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Target Organ Effects Immune system.
Aggravated Medical Conditions Skin disorders, Respiratory disorders. ***

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Magnesium nitrate*** 10377-60-3	= 5440 mg/kg (Rat)	no data available	No data available	No data available	No data available
5-Chloro-2-methyl-4-isothiazolin-3-one*** 26172-55-4	= 481 mg/kg (Rat)	no data available	= 1.23 mg/L (Rat) 4 h	No data available	No data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
5-Chloro-2-methyl-4-isothiazolin-3-one*** 26172-55-4	No data available	Skin sensitization	No data available	No data available	Immune system***
2-Methyl-4-isothiazolin-3-one*** 2682-20-4	No data available	Skin sensitization	No data available	No data available	Immune system***

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
5-Chloro-2-methyl-4-isothiazolin-3-one***	EC50 0.11 - 0.16 mg/L Pseudokirchneriella subcapitata 72 h EC50 0.03 - 0.13 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 1.6 mg/L Oncorhynchus mykiss 96 h	EC50 = 5.7 mg/L 16 h	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static	0.75***

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.***
Hazard Class 8
UN-No UN3265
Packing Group II
Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE),8,PG II***

TDG

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.***
Hazard Class 8
UN-No UN3265
Packing Group II
Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE),8,PG II***

ICAO

UN-No UN3265
Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.***
Hazard Class 8
Packing Group II
Shipping Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE),8,PG II***

IATA

UN-No UN3265
Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.***
Hazard Class 8
Packing Group II
ERG-Code 8L
Shipping Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE),8,PG II***

IMDG/IMO

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.***
Hazard Class 8
UN-No UN3265
Packing Group II
EmS No. F-A, S-B
Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE),8,PG II***

15. REGULATORY INFORMATION

Inventories

TSCA Complies
 DSL Complies

U.S. Federal Regulations**FIFRA**

This chemical is a pesticide product registered by the US EPA and is subject to certain labeling requirements under federal pesticide laws. These requirements differ from the classification criteria and hazard information required for SDSs, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

Corrosive - causes irreversible eye damage
 Causes skin burns
 May be fatal if absorbed through skin
 Harmful if swallowed***

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	CAS No.	Weight %	SARA 313 - Threshold Values
Magnesium nitrate***	10377-60-3	1-5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	No	No	No	No

CERCLA None

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

Prepared By Adrienne McKee
 Supersedes Date 08/16/2016
 Issuing Date 07/14/2017
 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

CHEM-AQUA, INC assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.