

# **Section 1: Product & Company Information**

Product Identifier: AquaLife CitriClean

Other Means of Identification: Citric acid anhydrous

Product Number:

Recommended Use and Restrictions on Use

Recommended Use: For use in cleaning aquarium accessories and equipment.

Restrictions on Use: Not to be used inside the aguarium.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: Aquarium Life Support Systems

1737 Louisville Dr Knoxville, TN 37921

USA

Information Telephone Number: 865/588-0108

Fax Number: 865/588-1976

Website: www.aqualifesupport.com E-mail: cs@aqualifesupport.com.com Emergency Phone Number: 865/588-0108

## Section 2: Hazards Identification

GHS Hazard Classification(s)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29

CFR 1910.1200).

Physical Hazard(s): Serious Eye Damage/Eye Irritation

Health Hazard(s): Specific target organ toxicity (single exposure)

Environmental Hazard(s): Not classified

Label Elements

Signal Word: Warning

Hazard Symbol(s): No symbol

Hazard Statement(s): Not applicable

**Precautionary Statements** 

Prevention: Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protectionAvoid breathing dust/fume/gas/mist/vapors/sprayUse only outdoors or in a well-ventilated area

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathingCall a POISON CENTER or doctor/physician if you feel unwell

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsingIf eye irritation persists: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep container tightly closedStore locked up

Disposal: Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified: (HNOC)May form combustible dust concentrations in air.

# Section 3: Composition/Information on Ingredients

#### **Substance**

Chemical Identity	CAS #	Weight %
Citric acid	77-92-9	>95

### **Section 4: First Aid Measures**

#### General Information

Magnesium Chloride, hexahydrate is a deliquescent, white solid in prilled form. Dusts of this product may cause irritation to the eyes, skin, throat, and nose. Magnesium Chloride hexahydrate is not combustible. Use extinguishing media appropriate for the surrounding fire. Thermal decomposition of this product produces irritating vapors and toxic gasses (e.g. hydrogen chloride, chlorine) Emergency responders should wear proper personal protective equipment for the releases to which they are responding.

#### Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptomsoccur.

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

### Ingestion

DO NOT INDUCE VOMITING. Obtain medical attention.

Most important symptoms/effects, acute and delayed No information available

# **Section 5: Fire Fighting Measures**

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing MediaNo information available.

Flash Point345°C / 653°F

Method - No information available.

Autoignition Temperature1000°C / 1832°F

Explosion Limits: Upper - No data available.

Lower: No data available

Oxidizing Properties: Not oxidising

Sensitivity to mechanicalimpact: No information available. Sensitivity to static discharge: No information available.

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture in air. Keep product and container away from heat and sources of ignition.

Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO2).

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health 2 Flammibility 1 Instability 0 Physical Hazards N/A

## **Section 6: Accidental Release Measures**

#### Personal Precautions

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

#### **Environmental Precautions**

Should not be released into the environment. See Section 12 for additional ecologicalInformation.

#### Methods for Containment and CleanUp

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dustformation.7. Handling and storageHandlingWear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

## Section 7: Handling and Storage

#### Handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin,or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

## **Section 8: Exposure Controls/Personal Protection**

#### **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

### Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA'seye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory ProtectionFollow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

## Section 9: Physical and Chemical Properties

Physical State Solid
Appearance White
Odor Odorless

Odor Threshold No information available. pH 1.7 (10 % Solution)

Melting Point/Range 153°C / 307.4°F
Boiling Point/Range No information available.

Flash Point 345°C / 653°F Evaporation Rate Not applicable

Flammability (solid,gas) No information available.

Flammability or explosive limits

Upper No data available Lower No data available

Vapor Pressure No information available.

Vapor Density Not applicable

Relative Density No information available.

Solubility Soluble in water
Partition coefficient; n-octanol/water No data available
Autoignition Temperature 1000°C / 1832°F

Decomposition temperature No information available.

ViscosityNot applicable Molecular FormulaC6 H8 O7

Molecular Weight 192.13

# **Section 10: Stability and Reactivity**

Reactivity

No dangerous reaction known under cditions of normal use.

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Avoid dust formation. Incompatible products. Excess heat. Temperatures above 170°C.

**Incompatible Materials** 

Strong oxidizing agents, Strong bases.

Hazardous Decomposition Products

Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

## **Section 11: Toxicological Information**

Information on routes of exposure

Ingestion: No information available.

Inhalation: May cause respiratory tract irritation.

Skin Contact: May cause skin irritation. Eye Contact: May cause eye irritation.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Citric Acid : LD50 (Rat) 3000 mg/kg (Rat)

Dermal >2 g/kg ( Rat )
Inhalation No Data Available

Repeated Dose Toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Modata Available
May cause skin irritation
May cause eye irritation

Respiratory/Skin Sensitization May cause respiratory tract irritation.

Carcinogenicity Not listed

Germ Cell Mutagenicity

No mutagenic components identified.

Reproductive Toxicity None known.

Specific Target Organ Toxicity – Single Exposure
Specific Target Organ Toxicity – Repeated Exposure
Aspiration Hazard
Other Effects

None known.
Not classified.
None known.

## Section 12: Ecological Information

Chronic Hazards to the Aquatic Environment

No data available. Aquatic Invertebrates No data available. Toxicity to Aquatic Plants No data available.

Persistence and Degradability

Biodegradation Soluble in water, Persistence is unlikely, based on

information available Bioaccumulative Potential

Bioconcentration Factor (BCF) No data available on bioaccumulation. No data available.

Partition Coefficient n-octanol / water (log Kow)

Mobility in Soil The product is water soluble and may spread in water

systems.

Other Adverse Effects No data available.

# **Section 13: Disposal Considerations**

### **Disposal Instructions**

Chemical waste generators must determine whether a discarded chemical is classified as ahazardous waste. Chemical waste generators must also consult local, regional, and nationalhazardous waste regula tions to ensure complete and accurate classification.

## **Section 14: Transportation Information**

US Department of Transportation (DOT)

This material is not regulated as a hazardous material for transport by the U.S. Department of Transporta tion.

# **Section 15: Regulatory Information**

TSCA 12(b) Not applicable **SARA 313** Not applicable

SARA 311/312 Hazardous Categorization

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

Clean Water Act Not applicable

Clean Air Act Not applicable OSHA Occupational Safety/Health Administration Not applicable

Not Applicable

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

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν

**DOT Severe Marine Pollutant** 

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Slight risk, Grade 1

Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regula tions (CPR) and theMSDS contains all the information required by the CPR.

WHMIS Hazard ClassD2B Toxic materials

## **Section 16: Other Information**

### Disclaimer

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