# Safety Data Sheet: CHEM-AQUA 655T

Supercedes Date 05/16/2013

Issuing Date 07/30/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 655T Recommended use Water treatment chemical Information on Manufacturer CHEM-AQUA, INC

BOX 152170 IRVING, TEXAS 75015 Product Code 817C
Chemical nature Acidic Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

### 2. HAZARD IDENTIFICATION

 Color Colorless
 Physical State Liquid
 Odor Odorless

### **GHS**

### Classification

#### Physical Hazards

Substances/mixtures corrosive to metal

Category 1

#### Health Hazard

 Skin Corrosion/Irritation
 Category 2

 Serious Eye Damage/Eye Irritation
 Category 2A

 Specific target organ systemic toxicity (single exposure)
 Category 3

 Specific target organ systemic toxicity (repeated exposure)
 Category 2

Other hazards

None

### Labeling Signal Word WARNING



# Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

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.

P260 - Do not breathe mist.

P271 - Use in a well-ventilated area.

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs, get medical attention.

P362 - Take off contaminated clothing and wash 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.

P337 + P313 - If eye irritation persists, get medical attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a physician if unwell.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P406 - Store in a corrosion-resistant container.

P390 - Absorb spillage to prevent damage

P501 - Dispose of contents and container in accordance with applicable regulations.

1 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	
Monosodium phosphate, anhydrous	7558-80-7	30-60	
Phosphoric acid	7664-38-2	1-5	

### 4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing mist.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue

flushing for at least 15 minutes. Get medical attention immediately.

**Skin Contact** Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least

15 minutes. Get medical attention immediately.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never

give anything by mouth to an unconscious person.

Treat symptomatically. Notes to physician

### 5. FIRE-FIGHTING MEASURES

**Flash Point** > 201 °F / > 94 °C Method Seta closed cup Flammability Limits in Air % Hydrogen. Upper 75 Lower 4

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

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, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA** Health 2 Flammability 1 Instability 0 **HMIS** Health 2 Flammability 1 Instability 0

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. 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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) **Neutralizing Agent** Neutralize with lime milk or soda and flush with plenty of water.

# 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing mist.

Storage Store in original container. Keep containers tightly closed in a dry, cool and 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 45 °F / 7 °C Maximum 110 °F / 43 °C **Storage Conditions** Refrigerated Indoor Outdoor Heated

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Monosodium phosphate, anhydrous	No data available	5 mg/m <sup>3</sup> PNOR (as solid)	No data available
Phosphoric acid	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	1000 mg/m <sup>3</sup>
	STEL: 3 mg/m <sup>3</sup>		STEL 3 mg/m <sup>3</sup>
			TWA: 1 mg/m <sup>3</sup>

**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.

Wear suitable protective clothing, Impervious gloves. Skin Protection

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations** Ensure that eyewash stations and safety showers are close to the workstation location. Remove

and wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid Viscosity Non viscous Color Colorless Odor Odorless Appearance **Odor Threshold** Not applicable Transparent pН 2.77 Specific Gravity 1.38 **Evaporation Rate** 0.34 (Butyl acetate=1) Percent Volatile (Volume) 71.4 VOC Content (g/L) **VOC Content (%)** 0

Vapor Pressure 11.28 mmHg @ 70°F Vapor Density 0.6 (Air = 1.0)n-Octanol/Water Partition Solubility Completely soluble No data available Melting Point/Range No data available **Decomposition Temperature** No data available **Boiling Point/Range** 217 °F / 103 °C Flammability (solid, gas) No data available > 201 °F / > 94 °C **Flash Point** Method Seta closed cup

**Autoignition Temperature** No information available.

Flammability Limits in Air % Hydrogen. Upper 75 Lower 4

# 10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to AvoidKeep away from open flames, hot surfaces, and sources of ignitionIncompatible ProductsStrong oxidizing agents, Acids, Bases, Metals.

Hazardous Decomposition Products

Carbon oxides, Oxides of phosphorus, Hydrogen, by reaction with

metals.

Possibility of Hazardous Reactions

None under normal processing

### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

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.

Primary Routes of Entry Ingestion

Acute Effects

Eyes Severe irritation.
Skin Severe irritation.

**Inhalation** Causes respiratory tract irritation.

**Ingestion** Irritating to mouth, throat, and stomach. Blood disorder may occur after ingestion. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irregular cardiac

activity.

Chronic Toxicity Kidney injury may occur.

Target Organ EffectsEyes, Respiratory system, Skin, Kidney, Heart, Central nervous system.

Aggravated Medical Conditions Skin disorders, Neurological disorders, Respiratory disorders, Kidney disorders.

Component Information

**Acute Toxicity** 

Notice Toxicity							
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other		
Monosodium phosphate, anhvdrous	= 8290 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	no data available	no data available	no data available		
Phosphoric acid	= 1530 mg/kg ( Rat )	= 2730 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 h	no data available	no data available		

Component	Mutagenicity	Sensitization	<b>Developmental Toxicity</b>	Reproductive Toxicity	Target Organ Effects
Monosodium phosphate, anhydrous	no data available	no data available	no data available	no data available	CNS, heart, kidney
Phosphoric acid no data available		no data available	no data available	no data available	eyes,respiratory system,skin

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	Water Flea	log Pow
Phosphoric acid	no data available	LC50 3 - 3.5 mg/L Gambusia affinis	no data available	EC50 4.6 mg/L Daphnia	N/A
		96 h		magna 12 h	

Persistence and DegradabilityNo information available.BioaccumulationNo information available.MobilityNo information available.

### 13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.

**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

### 15. REGULATORY INFORMATION

Inventories

TSCA Complies DSL Complies

**U.S. Federal Regulations** 

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

	Acute Health Hazard	aith Hazard Chronic Health Hazard Fire Hazard		Pressure Hazard		Reactive Hazard		
Yes Yes		No	No		No			
į	CERCLA							
	Comp	onent	Hazardous Substances RQs		CERCLA EHS RQs			
	Phosph	oric acid	5000 lb		Not applicable			

# 16. OTHER INFORMATION

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 07/30/2014

Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

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