Material Safety Data Sheet: CHEM-AQUA 11000

Supercedes Date 05/19/2011

Issuing Date 03/18/2014

Odor Sweet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 11000

Recommended use Water treatment chemical

Information on Manufacturer

CHEM-AQUA, INC

BOX 152170 IRVING, TEXAS 75015 Product Code 098C

Chemical nature Aqueous solution **Emergency Telephone Number**

CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview WARNING

Severe skin Irritation Causes severe eye irritation Causes respiratory tract irritation

Harmful if swallowed

Color Yellow - Amber

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion Chronic Toxicity

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Physical State Liquid

Skin contact, Eye contact. Skin Absorption

Severe irritation. Severe irritation.

Causes respiratory tract irritation.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Kidney injury may occur.

Kidney Kidney disorders

See Section 12 for additional Ecological information.

3, COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No
Tripotassium phosphate	7778-53-2
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	111951-31-6
Potassium tolyltriazois	64665-53-8
Tetrapotassium pyrophosphate	7320-34-5

4. FIRST AID MEASURES

General advice

Eye Contact

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

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.

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

Autoignition Temperature No information available.

Flammability Limits in Air % Hydrogen, by reaction with metals.

Upper 75

Lower 4

Suitable Extinguishing Media

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

Specific hazards arising from the chemical

Material can create slippery conditions. Contact with metals may evolve flammable hydrogen gas.

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 splllage 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, diatomacaous

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

None known.

7. HANDLING AND STORAGE

Handling Storage

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

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 Storage Conditions

Minimum Indoor

*** 35 °F***

Outdoor

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Maximum Heated

*** 120 °F*** / *** 49*** °C***

Refrigerated

8, EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guldelines

This product does not contain any hazardous materials with occupational exposure limits established

by the region specific regulatory bodies.

Component	ACGIH TLY	OSHA PEL	NIOSH
Tripotessium phosphate	No data avaliable	No data available	No data available
2-Phosphonobutane-1,2,4-tricarboxylic acid, polessium salt	No dala available	No dala available	No data available
Potassium tolytriazole	No data available	No data available	No data availabje
Tetrapotassium pyrophosphate	No data avallable	No dala available	No data available

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 Skin Protection

Tightly fitting safety goggles.

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. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Viscosity Odor

Non viscous Sweet

Color Appearance Yellow - Amber Transparent - Slightly hazy

рΗ

12.4 0.42 (Butyl acetate=1)

Specific Gravity Percent Volatile (Volume)

1.21 82.7

Evaporation Rate VOC Content (%)

VOC Content (g/L) Vapor Density

Vapor Pressure Solubility

14.2 mmHg @ 70°F Completely soluble

Boiling Point/Range

0.6 (Air = 1.0)*** > 212 °F*** / *** 100*** °C***

10. STABILITY AND REACTIVITY

Chemical Stability

Conditions to Avoid Incompatible Products

Hazardous Decomposition Products

Possibility of Hazardous Reactions

Stable, Hazardous polymerization does not occur.

None known

Strong oxidizing agents, Acids, Metals.

Carbon exides, Hydrogen, Phosphorus compounds, Hydrogen, by

reaction with metals.

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
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Tripotassium phosphate	= 2000 mg/kg (Rat)	no dala avallable	no data avallable	no data avallable	no data avallable
2-Phosphonobulane-1,2,4-	no data available	no data available	no data avallable	no dala available	no data available
Iricarboxylic acid, potassium salt					
Potassium tolyitriazole	no data avallable	no data available	no data avaitable	no data avallable	no data available
Tetrapotassium pyrophosphate	no data available	no data available	no dala available	no data available	no data available

Chronic Toxicity

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Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tripotassium phosphate	no data available	no data available	no dala available	no data avallable	no data avallable
2-Phosphonobutane-1,2,4-	no data avallable	no dala available	no data available	no dala avallable	no data avallable
tricarboxyllc acid, potassium sait			1		
Potassium tolyitriazole	no data available	no data available	no data available	no data available	no data avallable
Tetrapotassium pyrophosphate	no data available	no dala available	no data avallable	no data available	kláney

There are no known carcinogenic chemicals in this product. Carcinogenicity

Component	ACGIH	IARG	NTP	OSHA	Other
Tripotassium phosphate	not applicable				
2-Phosphonobulane-1,2,4-	not applicable				
tricarboxyllo acid, potassium salt			*	<u> </u>	
Potassium tolyltriazole	not applicable				
Tetrapolassium pyrophosphate	not applicable				

12 ECOLOGICAL INFORMATION

Product Information

Toxicity to fish LC50 917.8 mg/L 96h

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Tripotasslum phosphate	no data avallable	no data avaltable	no data available	no data available	N/A
2-Phosphonobulane-1,2,4-	no data available	no data avallable	no data available	no data available	N/A
tricarboxylic acid, potassium salt					
Potassium tolyitriazole	no data avallable	no dala available	no dela available	no data avallable	N/A
Tetrapolassium pyrophosphate	no data available	LC50 > 100 mg/L Oncorhynchus	no data available	EC50> 100 mg/L 48 h	N/A
. ,, ,		mykiss 96 h			

Persistence and Degradability

Bioaccumulation

Mobility

No information available.

No information available.

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Container Disposal Dispose of in accordance with local regulations.

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

14. TRANSPORT INFORMATION

DOT

Not regulated

TOG

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tripotassium phosphate	Not applicable	Not applicable
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	Not applicable	Not applicable
Potassium tolyltriazoie	Not applicable	Not applicable
Tetrapotassium pyrophosphate	Not applicable	Not applicable

Canada

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

WHMIS Hazard Class D2B Toxic materials



16. OTHER INFORMATION

Prepared By Supercedes Date Devon Kebodeaux 05/19/2011

Supercedes Date

03/18/2014

Reason for Revision

No information available. No information avaliable.

Glossary List of References.

No information available.

CHEM-AQUA, INCassumes 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.