

# Material Safety Data Sheet: CHEM-AQUA 32115

Supersedes Date 02/18/2013

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHEM-AQUA 32115  
**Recommended use** Water treatment chemical  
**Information on Manufacturer**  
CHEM-AQUA, INC  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** C809  
**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

**Physical State** Liquid

**Odor** Sweet

**Potential Health Effects**

**Principle Route of Exposure**

Skin contact, Eye contact.

**Primary Routes of Entry**

None known

**Acute Effects**

**Eyes**

Severe irritation.

**Skin**

Severe irritation.

**Inhalation**

Causes respiratory tract irritation.

**Ingestion**

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

**Chronic Toxicity**

Kidney injury may occur.

**Target Organ Effects**

Kidney

**Aggravated Medical Conditions**

Kidney disorders, Respiratory disorders, Skin disorders.

**Potential Environmental Effects**

See Section 12 for additional Ecological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Tripotassium orthophosphate	7778-53-2	7-13
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	111951-31-6	1-5
Sodium tolyltriazole	64665-57-2	1-5
Tetrapotassium pyrophosphate	7320-34-5	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.

**Notes to physician**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flash Point** > 201 °F / > 94 °C

**Method**

Seta closed cup

**Autoignition Temperature** No information available.

**Flammability Limits in Air %** No information available.

**Upper** No data available

**Lower** No data available

**Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Foam. Alcohol-resistant 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.

**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**

<b>Personal Precautions</b>	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	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)
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	None known.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing mist.			
<b>Storage</b>	Store in original container. Keep away from direct sunlight. Keep containers tightly closed in a cool, well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.			
<b>Storage Temperature</b>	<b>Minimum</b>	40 °F / 4 °C	<b>Maximum</b>	122 °F / 50 °C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	X
			<b>Heated</b>	
			<b>Refrigerated</b>	

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Tripotassium orthophosphate	No data available	No data available	No data available
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	No data available	No data available	No data available
Sodium tolyltriazole	No data available	No data available	No data available
Tetrapotassium pyrophosphate	No data available	No data available	No data available

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles.
<b>Skin Protection</b>	Wear suitable protective clothing, Impervious gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General Hygiene Considerations</b>	Wear suitable gloves and eye/face protection. 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**

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Yellow - Amber	<b>Odor</b>	Sweet
<b>Appearance</b>	Transparent	<b>pH</b>	11.4
<b>Specific Gravity</b>	1.213	<b>Evaporation Rate</b>	0.43 (Butyl acetate=1)
<b>Percent Volatile (Volume)</b>	82.6	<b>VOC Content (%)</b>	0
<b>VOC Content (g/L)</b>	0	<b>Vapor Pressure</b>	14.2 mmHg @ 70°F
<b>Vapor Density</b>	0.6 (Air = 1.0)	<b>Solubility</b>	Completely soluble
<b>Boiling Point/Range</b>	> 212 °F / 100 °C		

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Protect from light
<b>Incompatible Products</b>	Strong oxidizing agents, Reducing agents, Acids, Alkali metals, Light and/or alkaline metals.
<b>Hazardous Decomposition Products</b>	Carbon oxides, Hydrogen, Phosphorus compounds.
<b>Possibility of Hazardous Reactions</b>	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
Tripotassium orthophosphate	= 2000 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	no data available	no data available	no data available
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	no data available	no data available	no data available	no data available	no data available
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available
Tetrapotassium pyrophosphate	no data available	> 4640 mg/kg ( Rabbit )	no data available	no data available	no data available

**Chronic Toxicity**

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tripotassium orthophosphate	no data available	no data available	no data available	no data available	no data available
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	no data available	no data available	no data available	no data available	no data available
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available
Tetrapotassium pyrophosphate	no data available	no data available	no data available	no data available	kidney

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Tripotassium orthophosphate	not applicable	not applicable	not applicable	not applicable	not applicable
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium tolyltriazole	not applicable	not applicable	not applicable	not applicable	not applicable
Tetrapotassium pyrophosphate	not applicable	not applicable	not applicable	not applicable	not applicable

**12. ECOLOGICAL INFORMATION****Product Information**

No information available.

**Component Information**

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Tripotassium orthophosphate	no data available	no data available	no data available	no data available	N/A
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	no data available	no data available	no data available	no data available	N/A
Sodium tolyltriazole	no data available	no data available	no data available	no data available	N/A
Tetrapotassium pyrophosphate	no data available	LC50 > 100 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 > 100 mg/L 48 h	N/A

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No 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 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 orthophosphate	Not applicable	Not applicable
2-Phosphonobutane-1,2,4-tricarboxylic acid, potassium salt	Not applicable	Not applicable
Sodium tolyltriazole	Not applicable	Not applicable
Tetrapotassium pyrophosphate	Not applicable	Not applicable

## U.S. State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Lead	1317-36-8	carcinogen developmental toxicity
Diaminotoluene (mixed isomers)	25376-45-8	carcinogen
Mercury	7439-97-6	developmental toxicity
Nickel	7440-02-0	carcinogen
Arsenic	7440-38-2	carcinogen
Beryllium	7440-41-7	carcinogen
Cadmium and compounds (as Cd)	7440-43-9	carcinogen
Toluene	108-88-3	developmental toxicity female reproductive toxicity
Cobalt	7440-48-4	carcinogen
o-Nitrotoluene	88-72-2	carcinogen
o-Toluidine	95-53-4	carcinogen

## 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	Rachael Mohochi
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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