

# Material Safety Data Sheet: CHEM-AQUA 15000

Supersedes Date 04/22/2014

Issuing Date 09/05/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHEM-AQUA 15000  
**Recommended use** Water treatment chemical  
**Information on Manufacturer**  
CHEM-AQUA  
253 ORENDA ROAD  
BRAMPTON ONT L6T 1E6

**Product Code** 347C  
**Chemical nature** Aqueous solution  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

DANGER  
Corrosive  
Causes skin and eye burns  
May cause delayed lung injury and burns  
Harmful or fatal if swallowed

**Color** Amber

**Physical State** Liquid

**Odor** Sweet

### Potential Health Effects

### Principle Route of Exposure

Skin contact, Eye contact, Inhalation.

### Primary Routes of Entry

None known

### Acute Effects

#### Eyes

Corrosive to the eyes and may cause severe damage including blindness.

#### Skin

Causes skin burns.

#### Inhalation

Harmful by inhalation. Causes burns.

#### Ingestion

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

### Chronic Toxicity

None known.

### Target Organ Effects

Skin, Respiratory system.

### Aggravated Medical Conditions

Respiratory disorders, Skin disorders.

### Potential Environmental Effects

See Section 12 for additional Ecological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
2-Phosphonobutane-1,2,4-tricarboxylic acid, sodium salt	40372-66-5
Sodium hydroxide	1310-73-2
Sodium polyacrylate	9003-04-7
Polymaleic acid, sodium salt	70247-90-4
Sodium tolyltriazole	64665-57-2

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## 4. FIRST AID MEASURES

### General advice

Do not get in eyes, on skin or on clothing. Do not breathe 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

Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

### 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. Rinse mouth.

### Notes to physician

The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

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

surrounding environment.

#### Specific hazards arising from the chemical

Contact with metals may evolve 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.

<b>NFPA</b>	<b>Health 3</b>	<b>Flammability 1</b>	<b>Instability 0</b>
<b>HMIS</b>	<b>Health 3</b>	<b>Flammability 1</b>	<b>Instability 0</b>

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. 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>	Neutralize with hydrochloric acid.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Do not get in eyes, on skin or on clothing. Do not breathe mist.			
<b>Storage</b>	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.			
<b>Storage Temperature</b>	<b>Minimum</b>	40 °F / 4 °C	<b>Maximum</b>	115 °F / 46 °C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b> <b>Refrigerated</b>

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Sodium polyacrylate	3 mg/m <sup>3</sup> PNOS	5 mg/m <sup>3</sup> PNOR	No data available

<b>Engineering Measures</b>	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.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles. Face-shield.
<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 protective clothing when handling . Ensure that eyewash stations and safety showers are close to the workstation location.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Amber	<b>Odor</b>	Sweet
<b>Appearance</b>	Transparent	<b>pH</b>	13.5
<b>Specific Gravity</b>	1.193	<b>Evaporation Rate</b>	0.47 (Butyl acetate=1)
<b>Percent Volatile (Volume)</b>	85.8	<b>VOC Content (%)</b>	0
<b>VOC Content (g/L)</b>	0	<b>Vapor Pressure</b>	14.04 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>	None known
<b>Incompatible Products</b>	Strong oxidizing agents, Acids, Light and/or alkaline metals, Halogenated hydrocarbon, Reducing agents, Aldehydes.
<b>Hazardous Decomposition Products</b>	Carbon oxides, Nitrogen oxides (NOx), Hydrocarbons, Hydrogen cyanide, 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
Sodium hydroxide	no data available	= 1350 mg/kg ( Rabbit )	no data available	no data available	no data available
Sodium polyacrylate	5000 mg/kg	2000 mg/kg	no data available	no data available	no data available

## Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin

## Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

## 12. ECOLOGICAL INFORMATION

Product Information

Toxicity to fish
Pimephales promelas (fathead minnow) 600 mg/L 96h

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium hydroxide	no data available	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	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

Proper Shipping Name Corrosive Liquid, basic, inorganic, N.O.S.  
 Hazard Class 8  
 UN-No UN3266  
 Packing Group II  
 Description UN3266, Corrosive liquid, basic, inorganic, N.O.S.,(Sodium Tolytriazole, Sodium Hydroxide), 8, PG II

TDG

Proper shipping name Corrosive Liquid, basic, inorganic, N.O.S.  
 Hazard Class 8  
 UN-No UN3266  
 Packing Group II  
 Description UN3266, Corrosive liquid, basic, inorganic, N.O.S.,(Sodium Tolytriazole, Sodium Hydroxide), 8, PG II

ICAO

UN-No UN3266  
 Proper Shipping Name Corrosive Liquid, basic, inorganic, N.O.S.  
 Hazard Class 8  
 Packing Group II  
 Shipping Description UN3266, Corrosive liquid, basic, inorganic, N.O.S.,(Sodium Tolytriazole, Sodium Hydroxide), 8, PG II

IATA

UN-No UN3266  
 Proper Shipping Name Corrosive Liquid, basic, inorganic, N.O.S.  
 Hazard Class 8  
 Packing Group II  
 Shipping Description UN3266, Corrosive liquid, basic, inorganic, N.O.S.,(Sodium Tolytriazole, Sodium Hydroxide), 8, PG II

## IMDG/IMO

**Proper Shipping Name** Corrosive Liquid, basic, inorganic, N.O.S.  
**Hazard Class** 8  
**UN-No** UN3266  
**Packing Group** II  
**Shipping Description** UN3266, Corrosive liquid, basic, inorganic, N.O.S.,(Sodium Tolytriazole, Sodium Hydroxide), 8, PG II

## 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	No	No	No	No

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	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

E Corrosive material D2B Toxic materials



## 16. OTHER INFORMATION

**Prepared By** Adrienne McKee  
**Supersedes Date** 04/22/2014  
**Issuing Date** 09/05/2014  
**Reason for Revision** No information available.  
**Glossary** No information available.  
**List of References.** No information available.

**CHEM-AQUA** 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.