

# Safety Data Sheet: CHEM-AQUA 42171

Supersedes Date: 01/04/2018

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CHEM-AQUA 42171  
**Recommended use** Water treatment chemical Biocidal product  
**Information on Manufacturer**  
CHEM-AQUA, INC  
BOX 152170  
IRVING, TEXAS 75015

**Product Code:** TV11  
**Chemical nature** Aqueous solution Alkaline  
**Emergency Telephone**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Orange

**Physical state** Liquid

**Odor** Slight chlorine

### GHS Classification

#### Physical Hazards

Corrosive to Metals

Category 1

#### Health Hazard

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Skin Corrosion/Irritation

Category 1

Serious Eye Damage/Eye Irritation

Category 1

#### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard statements

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

H290 - May be corrosive to metals

#### Precautionary Statements

P280 - Wear protective gloves, protective clothing and eye protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe mists

P271 - Use in a well-ventilated area.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P363 - Wash contaminated clothing before reuse

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms, call a physician.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P390 - Absorb spillage to prevent damage.

P406 - Store in a corrosion-resistant container.

P501 - Dispose of contents and container to an approved waste disposal plant.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Sulfamic acid, n-bromo, sodium salt	1004542-84-0	10-30
Sodium hydroxide	1310-73-2	3-7

\*The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

<b>General advice</b>	Do not get in eyes, on skin or on clothing. Do not breathe mist.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or poison control center immediately.
<b>Skin Contact</b>	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b> Does not flash	<b>Method</b> No data available	
<b>Flammability Limits in Air %:</b> Hydrogen, by reaction with metals.	<b>Upper:</b> 75	<b>Lower:</b> 4
<b>Suitable Extinguishing Media</b> Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b> Contact with metals may evolve flammable hydrogen gas. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b> As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 3	<b>Flammability</b> 0
<b>HMIS -</b>	<b>Health</b> 3	<b>Flammability</b> 0
		<b>Instability</b> 1
		<b>Instability</b> 1

#### 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>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.
<b>Methods for Cleaning Up</b>	No information available.
<b>Neutralizing Agent</b>	Not applicable.

#### 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 away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Do not freeze.
<b>Storage Temperature</b>	<b>Minimum</b> 45 °F / 7 °C
<b>Storage Conditions</b>	<b>Maximum</b> 100 °F / 38 °C
	<b>Indoor</b> X <b>Outdoor</b> <b>Heated</b> <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Guidelines

Chemical name	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>

<b>Engineering Measures</b>	Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.
<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 gloves/clothing. 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>	Orange	<b>Odor</b>	Slight chlorine
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Orange
<b>pH</b>	> 13	<b>Specific Gravity</b>	1.32

<b>Evaporation Rate</b>	0.45 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	82.2
<b>VOC Content (%)</b>	.?	<b>VOC Content (g/L)</b>	0
<b>Vapor pressure</b>	12.58 mmHg @ 70°F	<b>Vapor Density</b>	0.6 (Air = 1.0)
<b>Solubility</b>	Completely soluble	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	No data available	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	Does not flash	<b>Method</b>	No data available
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %:</b>	Hydrogen, by reaction with metals	<b>Upper:</b> 75	<b>Lower:</b> 4

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Products</b>	Reducing agents, Acids, Bases, Oxidizing agents, Organic materials, Metals, Alkalis.
<b>Decomposition Temperature</b>	No data available
<b>Hazardous Decomposition Products</b>	Nitrogen oxides (NOx), Bromine.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

**Product Information** No information available.

The following values are calculated based on chapter 3.1 of the GHS document

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation, Ingestion.

**Primary Routes of Entry** None known.

**Acute Effects:**

<b>Eyes</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin</b>	Causes skin burns.
<b>Inhalation</b>	Harmful by inhalation. Causes burns.
<b>Ingestion</b>	Ingestion causes burns of the upper digestive and respiratory tracts. May be fatal if swallowed.

**Chronic Toxicity**

Inhaled corrosive substances can lead to a toxic edema of the lungs.

**Target Organ Effects:**

Skin, Respiratory system, Eyes.

**Aggravated Medical Conditions**

Skin disorders, Respiratory disorders.

**Component Information**

**Acute Toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hydroxide 1310-73-2	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	No data available	No data available	No data available

**Chronic Toxicity**

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide 1310-73-2	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

## 12. ECOLOGICAL INFORMATION

**Product Information**

**Additional Ecological Information:** Toxicity data will be furnished on request.

**Component Information**

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.  
**Mobility** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency.

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

### 14. TRANSPORT INFORMATION

#### DOT

**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Hazard Class** 8  
**UN-No** UN1760  
**Packing Group** III  
**Description** UN1760, Corrosive liquid, n.o.s.,(Bromide Salts), 8, PG III

#### TDG

**Proper shipping name** UN1760, Corrosive liquid, n.o.s.(Bromide Salts), 8, PG III  
**Hazard Class** 8  
**UN-No** UN1760  
**Packing Group** III  
**Description** UN1760, Corrosive liquid, n.o.s.,(Bromide Salts), 8, PG III

#### ICAO

**UN-No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Hazard Class** 8  
**Packing Group** III  
**Shipping Description** UN1760, Corrosive liquid, n.o.s.,(Bromide Salts), 8, PG III

#### IATA

**UN-No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Hazard Class** 8  
**Packing Group** III  
**ERG-Code** 8L  
**Shipping Description** UN1760, Corrosive liquid, n.o.s.(Bromide Salts), 8, PG III

#### IMDG/IMO

**UN proper shipping name** Corrosive liquid, n.o.s.  
**Hazard Class** 8  
**UN Number** UN1760  
**Packing Group** III  
**EmS No.** F-A, S-B  
**Description** UN1760, Corrosive liquid, n.o.s.(Bromide Salts), 8, PG III

### 15. REGULATORY INFORMATION

#### Inventories

**TSCA** Complies  
**DSL** Complies

#### U.S. Federal Regulations

##### FIFRA

This chemical is a pesticide product registered by the US EPA and is subject to certain labeling requirements under federal pesticide laws. These requirements differ from the classification criteria and hazard information required for SDSs, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

##### DANGER

Corrosive - causes irreversible eye damage  
 Causes skin burns  
 The pesticide is toxic to fish and aquatic organisms.

##### 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**

See Section 2

**CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

**16. OTHER INFORMATION**

**Prepared By** Adrienne McKee  
**Supersedes Date:** 01/04/2018  
**Issuing Date:** 08/26/2019  
**Reason for Revision** No information available.  
**Glossary** No information available.  
**List of References.** No information available.

**CHEM-AQUA, INC** 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.