Safety Data Sheet CHEM-AQUA 8500MTP

Supercedes Date 06/11/2015 **Issuing Date** 09/25/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 8500MTP
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code 984C
Chemical nature Aqueous solution of alkali salts
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Light orange - Light brown **Physical state** liquid **Odor** Slight Sweet

GHS Classification

Physical Hazards

Corrosive to Metals	Category 1

Health Hazard

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
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
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
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 at rest in a position comfortable for breathing.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P406 - Store in a corrosion-resistant container.
P390 - Absorb spillage to prevent damage
P501 - Dispose of contents and container in accordance with applicable local regulations.

12 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Sodium hydroxide	1310-73-2	3-7
Tolyltriazole Sodium Salt	64665-57-2	3-7

Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	29329-71-3	3-7
Sodium zincate	12179-14-5	1-5
Sodium sulfate	7757-82-6	1-5

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 not breathing, give 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.

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 Does not flash **Method** Not applicable

Flammability Limits in Air %: Hydrogen, by reaction with metals. **Upper:** 75 **Lower:** 4

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Alcohol-resistant 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 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, NOHSC (approved or equivalent) and full protective gear.

NFPA **Health** 3 **Flammability** 0 **Instability** 0

HMIS **Health** 3 **Flammability** 0 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. 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 Pick up and transfer to properly labeled containers.

Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe 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** 40 °F / 4 °C **Maximum** 115 °F / 46 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m^3	TWA: 2 mg/m^3	10 mg/m^3 Ceiling: 2 mg/m^3

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. Face-shield.

Skin Protection Wear suitable protective clothing, Impervious gloves.

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 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**	Non viscous
Color	Light orange - Light brown	**Odor**	Slight Sweet
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	13.6	**Specific Gravity**	1.213
Evaporation Rate	0.46 (BuAc = 1)	**Percent Volatile (Volume)**	82.7
VOC Content (%)	0	**VOC Content (g/L)**	0
Vapor Pressure	13.73 mmHg @ 70°F	**Vapor Density**	0.6 (Air = 1.0)
Solubility	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	No data available	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	Not applicable
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Hydrogen, by reaction with metals	**Upper:** 75 **Lower:** 4	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid None known.
Incompatible Products Strong oxidizing agents, Strong acids, Halogenated hydrocarbon, Contact with metals liberates hydrogen gas.
Decomposition Temperature No data available
Hazardous Decomposition Products Carbon oxides, Oxides of phosphorus, Sodium oxides, Sulfur oxides, Zinc oxide fumes, Hydrogen, by reaction with metals.
Possibility of Hazardous Reactions 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
Dermal LD50 25,617.00
Inhalation LC50
- **Gas** No information available
- **Mist** No information available
- **Vapor** No information available

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 Inhaled corrosive substances can lead to a toxic edema of the lungs.
Target Organ Effects Respiratory system, Skin.
Aggravated Medical Conditions Respiratory disorders, Skin disorders.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hydroxide 1310-73-2	no data available	= 1350 mg/kg (Rabbit)	no data available	no data available	no data available
Sodium sulfate 7757-82-6	> 10000 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	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 Contains no ingredient listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Product Information: No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	log Pow
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Sodium sulfate	No information available.	LC50 13500 - 14500 mg/L Pimephales promelas 96 h LC50 > 6800 mg/L Pimephales promelas 96 h LC50 3040 - 4380 mg/L Lepomis macrochirus 96 h LC50 = 13500 mg/L Lepomis macrochirus 96 h	No information available	2564: 48 h Daphnia magna mg/L EC50	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 Hydroxide, Sodium Tolytriazole), 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 Hydroxide, Sodium Tolytriazole), 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 Hydroxide, Sodium Tolytriazole), 8, PG II

IATA

UN-No UN3266
Proper Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.
Hazard Class 8
Packing Group II
ERG-Code 8L
Shipping Description UN3266, Corrosive Liquid, Basic, Inorganic, N.O.S.,(Sodium Hydroxide, Sodium Tolytriazole), 8, PG II

IMDG/IMO

Proper Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.
Hazard Class 8
UN-No UN3266
Packing Group II
EmS No. F-A, S-B
Description UN3266, Corrosive Liquid, Basic, Inorganic, N.O.S.,(Sodium Hydroxide, Sodium Tolytriazole), 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	CAS No.	Weight %	SARA 313 - Threshold Values
Sodium zincate	12179-14-5	1-5	1.0

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

16. OTHER INFORMATION

Prepared By	Adrienne McKee
Supercedes Date	06/11/2015
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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