Safety Data Sheet CHEM-AQUA 18015

Supercedes Date 05/26/2009 **Issuing Date** 12/28/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 18015
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code 29TZ
Chemical nature Aqueous solution Amines
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless Red Amber **Physical state** liquid **Odor** Ammoniacal

GHS
Classification

Physical Hazards

Flammable liquids	Category 3
Corrosive to metals	Category 1

Health Hazard

Aspiration Toxicity	Category 1
Acute Oral Toxicity	Category 3
Acute Dermal Toxicity	Category 3
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin sensitization	Category 1
Reproductive Toxicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H226 - Flammable liquid and vapor
H314 - Causes severe skin burns and eye damage
H311 - Toxic in contact with skin
H317 - May cause an allergic skin reaction
H331 - Toxic if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H301 - Toxic if swallowed
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H290 - May be corrosive to metals

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P271 - Use in a well-ventilated area.
P260 - Do not breathe vapor or mist
P285 - In case of inadequate ventilation wear respiratory protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P333 - If skin irritation or rash occurs get medical attention.
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.
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.
P406 - Store in a corrosion-resistant container.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P233 - Keep container tightly closed
P390 - Absorb spillage to prevent damage
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray 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. Rinse mouth.

Notes to physician The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point 129 °F / 54 °C **Method** Pensky Marten Closed Tester

Flammability Limits in Air %: Mixture. **Upper:** 75 **Lower:** 1.4

Suitable Extinguishing Media

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

Specific hazards arising from the chemical

Combustible Liquid. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Contact with metals liberates 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** 2	**Instability** 0
HMIS	**Health** 3	**Flammability** 2	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions Avoid release of neat product into surface water and sanitary sewage 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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

Storage Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze. 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** 35 °F / 2 °C **Maximum** 120 °F / 49 °C

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

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 insufficient ventilation wear suitable respiratory equipment. 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. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid	**Viscosity**	Non viscous
Color	Colorless Red Amber	**Odor**	Ammoniacal
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	13	**Specific Gravity**	1.0
Evaporation Rate	0.58 (Butyl acetate=1)	**Percent Volatile (Volume)**	0
VOC Content (%)	20.1	**VOC Content (g/L)**	0
Vapor Pressure	17.2 mmHg @ 70°F	**Vapor Density**	0.7 (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	204 °F / 96 °C	**Flammability (solid, gas)**	No data available
Flash Point	129 °F / 54 °C	**Method**	Pensky Marten Closed Tester
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	**Upper:** 75 **Lower:** 1.4	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid Keep away from open flames, hot surfaces, and sources of ignition, Extremes of temperature and direct sunlight.

Incompatible Products Strong oxidizing agents, Highly halogenated compounds, Methyl isocyanate, Aldehydes, Ketones, Alkylene oxides, Acids, Acid chlorides, Acetic anhydride, Nitrous acid and other nitrosating agents, Contact with metals liberates hydrogen gas.

Decomposition Temperature No data available

Hazardous Decomposition Products Carbon oxides, Nitrogen oxides (NOx), Nitriles, Ammonia, Aldehydes, Ketones, 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

Oral LD50 153.00

Dermal LD50 2,158.00

Inhalation LC50

- **Gas** 1,378.00
- **Mist** 11.50
- **Vapor** No information available

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

Primary Routes of Entry Skin contact, Skin Absorption.

Acute Effects:

- **Eyes** Corrosive to the eyes and may cause severe damage including blindness.
- **Skin** Causes skin burns. May be absorbed through the skin in harmful amounts. May cause allergic skin reaction.
- **Inhalation** Harmful by inhalation. Causes burns. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
- **Ingestion** Toxic if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed.

Chronic Toxicity Inhaled corrosive substances can lead to a toxic edema of the lungs. Liver and kidney injuries may

occur. May cause sensitization by skin contact. May cause sensitization by inhalation.

Target Organ Effects Central nervous system, Kidney, Liver, Respiratory system, Skin, Eyes, Immune system, Blood, Heart.

Aggravated Medical Conditions Neurological disorders, Kidney disorders, Liver disorders, Skin disorders, Respiratory disorders, Heart disease, Blood disorders.

Component Information

Acute Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

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 liquids, flammable, n.o.s.
Hazard Class	8
Subsidiary Hazard Class	3
UN-No	UN2920
Packing Group	II
Description	UN2920, Corrosive Liquids, Flammable, N.O.S.,(Morpholine, Cyclohexylamine), 8, (3), PG II

TDG

Proper shipping name	Corrosive liquid, flammable, n.o.s.
Hazard Class	8
Subsidiary Hazard Class	3
UN-No	UN2920
Packing Group	II
Description	UN2920, Corrosive Liquids, Flammable, N.O.S.,(Morpholine, Cyclohexylamine), 8, (3), PG II

ICAO

UN-No	UN2920
Proper Shipping Name	Corrosive liquid, flammable, n.o.s.
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II
Shipping Description	UN2920, Corrosive Liquids, Flammable, N.O.S.,(Morpholine, Cyclohexylamine), 8, (3), PG II

IATA

UN-No	UN2920
Proper Shipping Name	Corrosive liquid, flammable, n.o.s.
Hazard Class	8
Subsidiary hazard class	3
Packing Group	II
ERG-Code	8F
Shipping Description	UN2920, Corrosive Liquids, Flammable, N.O.S.,(Morpholine, Cyclohexylamine), 8, (3), PG II

IMDG/IMO

Proper Shipping Name	Corrosive liquid, flammable, n.o.s.
Hazard Class	8
Subsidiary Hazard Class	3
UN-No	UN2920
Packing Group	II
EmS No.	F-E, S-C
Description	UN2920, Corrosive Liquids, Flammable, N.O.S.,(Morpholine, Cyclohexylamine), 8, (3), 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 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	Yes	No	No

CERCLA

16. OTHER INFORMATION

Prepared By	Sarah Williamson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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