# Safety Data Sheet: CHEM-AQUA 84420

**Supercedes Date** 09/09/2011 **Issuing Date** 04/25/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHEM-AQUA 84420
**Recommended use** Water treatment chemical
**Information on Manufacturer**
CHEM-AQUA, INC

BOX 152170
IRVING, TEXAS 75015

**Product Code** 0C36
**Chemical nature** Polymers and Petroleum emulsion
**Emergency Telephone Number**
CHEMTREC® 800-424-9300
**Telephone inquiry**
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** White **Physical State** Liquid **Odor** Aliphatic

**GHS Classification**

*Physical Hazards*
None

*Health Hazard*

| | |
|---|---|
| Serious Eye Damage/Eye Irritation | Category 2B |
| Specific target organ systemic toxicity (single exposure) | Category 3 |
| Specific target organ systemic toxicity (repeated exposure) | Category 2 |

*Other hazards*
None

**Labeling**
*Signal Word*
**DANGER**

*Hazard Statements*
H320 - Causes eye irritation
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure

*Precautionary Statements*
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist or vapor
P271 - Use in a well-ventilated area.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents and container in accordance with applicable regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % |
|---|---|---|
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,polymer with 2-propenamide | 69418-26-4 | 30-60 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 15-40 |
| Sorbitan oleate | 1338-43-8 | 1-5 |
| Nonyl phenol polyethylene glycol ether | 9016-45-9 | 1-5 |

## 4. FIRST AID MEASURES

**General advice** Avoid contact with skin, eyes and clothing. Avoid breathing mist.
**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

**Skin Contact** Wipe up with absorbent material (e.g. cloth, fleece). Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
**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 if symptoms occur.
**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flash Point** Does not flash **Method** Open cup
**Flammability Limits in Air %** Not applicable. **Upper** No data available **Lower** No data available
**Suitable Extinguishing Media**
Carbon dioxide (CO2). Dry chemical. Foam. Water spray. 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** 1 | **Flammability** 1 | **Instability** 0 |
| **HMIS** | **Health** 1 | **Flammability** 1 | **Instability** 0 |

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. Ensure adequate ventilation.
**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** Not applicable.

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing. Avoid breathing mist.
**Storage** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

| | | | | | |
|---|---|---|---|---|---|
| **Storage Temperature** | **Minimum** | 41 °F / 5 °C | | **Maximum** | 86 °F / 30 °C |
| **Storage Conditions** | **Indoor** | X | **Outdoor** | **Heated** | **Refrigerated** |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,polymer with 2-propenamide | No data available | No data available | No data available |
| Petroleum distillates, hydrotreated light | 525 mg/m$^3$ TWA | No data available | No data available |
| Sorbitan oleate | No data available | No data available | No data available |
| Nonyl phenol polyethylene glycol ether | No data available | No data available | No data available |

**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** Safety glasses with side-shields.
**Skin Protection** For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
**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** 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** | Viscous |
| **Color** | White | **Odor** | Aliphatic |
| **Odor Threshold** | Not applicable | **Appearance** | Opaque - Hazy |
| **pH** | 4 | **Specific Gravity** | 1.04 |

| | | | |
|---|---|---|---|
| **Evaporation Rate** | <1 (Butyl acetate=1) | **Percent Volatile (Volume)** | 58 |
| **VOC Content (%)** | 28 | **VOC Content (g/L)** | 260 |
| **Vapor Pressure** | >0.1 mmHg @ 70°F | **Vapor Density** | >1 (Air = 1.0) |
| **Solubility** | Dispersible | **n-Octanol/Water Partition** | No data available |
| **Melting Point/Range** | No data available | **Decomposition Temperature** | No data available |
| **Boiling Point/Range** | > 242 °F / 117 °C | **Flammability (solid, gas)** | No data available |
| **Flash Point** | Does not flash | **Method** | Open cup |
| **Autoignition Temperature** | No information available. | | |
| **Flammability Limits in Air %** | Not applicable. | **Upper** No data available **Lower** No data available | |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Chemical Stability** | Stable. Hazardous polymerization does not occur. |
| **Conditions to Avoid** | None known |
| **Incompatible Products** | Strong oxidizing agents |
| **Hazardous Decomposition Products** | Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon oxides. |
| **Possibility of Hazardous Reactions** | None under normal processing |

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):**

| | |
|---|---|
| **Oral LD50** | 7,531.81 |
| **Dermal LD50** | 3,757.81 |
| **Inhalation LC50** | |
| **Gas** | No information available |
| **Mist** | 10.39 |
| **Vapor** | 10.39 |

| | |
|---|---|
| **Principle Route of Exposure** | Skin contact, Eye contact, Inhalation. |
| **Primary Routes of Entry** | None known |
| **Acute Effects** | |
| **Eyes** | May cause eye irritation. |
| **Skin** | May cause skin irritation. |
| **Inhalation** | May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. |
| **Ingestion** | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| **Chronic Toxicity** | Prolonged or repeated inhalation may cause damage to the lungs. Prolonged skin contact may defat the skin and produce dermatitis. Liver and kidney injuries may occur. |
| **Target Organ Effects** | Respiratory system, Liver, Kidney, Central nervous system. |
| **Aggravated Medical Conditions** | Liver disorders, Kidney disorders, Respiratory disorders, Neurological disorders. |

Component Information

**Acute Toxicity**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|---|---|---|---|---|---|
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,polymer with 2-propenamide | no data available | no data available | no data available | no data available | no data available |
| Petroleum distillates, hydrotreated light | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | no data available | no data available | no data available |
| Sorbitan oleate | no data available | no data available | no data available | no data available | no data available |
| Nonyl phenol polyethylene glycol ether | = 2590 mg/kg ( Rat ) | = 1780 µL/kg ( Rabbit ) | no data available | no data available | no data available |

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|---|---|---|---|---|---|
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,polymer with 2-propenamide | no data available | no data available | no data available | no data available | no data available |
| Petroleum distillates, hydrotreated light | no data available | no data available | no data available | no data available | no data avalilable |
| Sorbitan oleate | no data available | no data available | no data available | no data available | no data available |
| Nonyl phenol polyethylene glycol ether | no data available | no data available | no data available | no data available | no data available |

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

| Component | ACGIH | IARC | NTP | OSHA | Other |
|---|---|---|---|---|---|
| Ethanaminium, N,N,N-trimethyl- | not applicable | not applicable | not applicable | not applicable | not applicable |

| | | | | | |
|---|---|---|---|---|---|
| 2-[(1-oxo-2-propenyl)oxy]-, chloride,polymer with 2-propenamide | | | | | |
| Petroleum distillates, hydrotreated light | not applicable | not applicable | not applicable | not applicable | not applicable |
| Sorbitan oleate | not applicable | not applicable | not applicable | not applicable | not applicable |
| Nonyl phenol polyethylene glycol ether | 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 |
|---|---|---|---|---|---|
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,polymer with 2-propenamide | no data available | no data available | no data available | no data available | N/A |
| Petroleum distillates, hydrotreated light | no data available | LC50 = 2.2 mg/L Lepomis macrochirus 96 h<br>LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h<br>LC50 = 45 mg/L Pimephales promelas 96 h | no data available | 4720: 96 h Den-dronereides heteropoda mg/L LC50 | N/A |
| Sorbitan oleate | no data available | no data available | no data available | no data available | N/A |
| Nonyl phenol polyethylene glycol ether | no data available | no data available | 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** 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 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 |
|---|---|---|
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl) oxy]-, chloride,polymer with 2-propenamide | Not applicable | Not applicable |

| | | |
|---|---|---|
| Petroleum distillates, hydrotreated light | Not applicable | Not applicable |
| Sorbitan oleate | Not applicable | Not applicable |
| Nonyl phenol polyethylene glycol ether | Not applicable | Not applicable |

## 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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