

# Safety Data Sheet: CHEM-AQUA 87450

Supersedes Date 02/10/2010

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHEM-AQUA 87450  
**Recommended use** Water treatment chemical  
**Information on Manufacturer**  
CHEM-AQUA, INC  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** 0C47  
**Chemical nature** Inorganic substances in powdered form  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Blue gray - Green

**Physical State** Powder

**Odor** Odorless

### GHS

#### Classification

##### Physical Hazards

None

##### Health Hazard

Acute Oral Toxicity  
Serious Eye Damage/Eye Irritation  
Carcinogenicity  
Specific target organ systemic toxicity (repeated exposure)

Category 4  
Category 2B  
Category 1A  
Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard Statements

H320 - Causes eye irritation  
H302 - Harmful if swallowed  
H373 - May cause damage to organs through prolonged or repeated exposure  
H350 - May cause cancer

#### Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood  
P280 - Wear protective gloves, protective clothing and eye protection.  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P260 - Do not breathe dust  
P270 - Do not eat, drink or smoke when using this product  
P281 - Use personal protective equipment as required  
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.  
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.  
P501 - Dispose of contents and container in accordance with applicable regulations.

92 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium montmorillonite	1318-93-0	60-100
Crystalline Silica (Quartz)	14808-60-7	5-10
Polyacrylamide	9003-05-8	1-5
Aluminum Sulfate	10043-01-3	1-5
Bentonite	1302-78-9	1-5

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**4. FIRST AID MEASURES**

**General advice** Avoid contact with skin, eyes and clothing. Avoid breathing dust.  
**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. Rinse mouth.  
**Notes to physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Flash Point** Does not flash **Method** Not applicable  
**Flammability Limits in Air %** Not applicable. **Upper** No data available **Lower** No data available  
**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** 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** 0 **Instability** 0  
**HMIS** **Health** 1 **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. Avoid dust formation.  
**Environmental Precautions** No special environmental precautions required.  
**Methods for Containment** Cover powder spill with plastic sheet or tarp to minimize spreading.  
**Methods for Cleaning Up** Pick up and arrange disposal without creating dust.  
**Neutralizing Agent** Not applicable.

**7. HANDLING AND STORAGE**

**Handling** Avoid contact with skin, eyes and clothing. Avoid breathing dust.  
**Storage** Store in original container. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.  
**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**

Component	ACGIH TLV	OSHA PEL	NIOSH
Crystalline Silica (Quartz)	: 0.025 mg/m <sup>3</sup> TWA (respirable fraction)	No data available	50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup>
Aluminum Sulfate	No data available	No data available	TWA: 2 mg/m <sup>3</sup>
Bentonite	TWA: 1 mg/m <sup>3</sup>	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** Powder **Viscosity** Solid

<b>Color</b>	Blue gray - Green	<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Opaque
<b>pH</b>	(4-5 @ 5 % solution)	<b>Specific Gravity</b>	2.55
<b>Bulk Density (lb/cu ft)</b>	64	<b>Evaporation Rate</b>	0 (Butyl acetate=1)
<b>Percent Volatile (Volume)</b>	0	<b>VOC Content (%)</b>	0
<b>VOC Content (g/L)</b>	0	<b>Vapor Pressure</b>	0 mmHg @ 70°F
<b>Vapor Density</b>	Not applicable	<b>Solubility</b>	Negligible
<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>	Not applicable
<b>Flammability (solid, gas)</b>	No data available		
<b>Flash Point</b>	Does not flash	<b>Method</b>	Not applicable
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Not applicable.	<b>Upper</b>	No data available
		<b>Lower</b>	No data available

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces, and sources of ignition
<b>Incompatible Products</b>	None known
<b>Hazardous Decomposition Products</b>	Carbon oxides, Hydrogen chloride gas, Nitrogen oxides (NOx).
<b>Possibility of Hazardous Reactions</b>	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):

<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

<b>Principle Route of Exposure</b>	Skin contact, Eye contact, Inhalation.
<b>Primary Routes of Entry</b>	Inhalation

<b>Acute Effects</b>	
<b>Eyes</b>	Causes eye irritation.
<b>Skin</b>	May cause skin irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic Toxicity</b>	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Prolonged or repeated inhalation may cause damage to the lungs. Kidney injury may occur. Contains a known or suspected carcinogen.
<b>Target Organ Effects</b>	Respiratory system, Kidney, Eyes.
<b>Aggravated Medical Conditions</b>	Respiratory disorders, Kidney disorders.

**Component Information**

**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Crystalline Silica (Quartz)	= 500 mg/kg ( Rat )	no data available	no data available	no data available	no data available
Aluminum Sulfate	= 1930 mg/kg ( Rat )	no data available	no data available	no data available	no data available
Bentonite	> 5000 mg/kg ( Rat )	no data available	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Crystalline Silica (Quartz)	no data available	no data available	no data available	no data available	eyes, respiratory system (in animals: lung cancer), kidneys
Aluminum Sulfate	no data available	no data available	no data available	no data available	skin, respiratory system

**Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Other
Crystalline Silica (Quartz)	A2	Group 1	Known	X	not applicable

**12. ECOLOGICAL INFORMATION**

<b>Product Information</b>	No information available.
<b>Component Information</b>	

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Aluminum Sulfate	no data available	LC50 = 100 mg/L Carassius auratus 96 h LC50 = 37 mg/L Gambusia affinis 96 h	no data available	EC50 136 mg/L Daphnia magna 15 min	N/A
Bentonite	no data available	LC50 8.0 - 19.0 g/L Salmo gairdneri 96 h LC50 = 19000 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** 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 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
Aluminum Sulfate	5000 lb	Not applicable

**16. OTHER INFORMATION**

**Prepared By** Rachael Mohochi  
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**Issuing Date** 08/18/2014  
**Reason for Revision** No information available.  
**Glossary** No information available.  
**List of References.** No information available.

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