

Safety Data Sheet: CHEM-AQUA 52805

Supersedes Date: 10/31/2016

Issuing Date: 10/24/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHEM-AQUA 52805
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA
253 ORENDA ROAD
BRAMPTON ONT L6T 1E6

Product Code: C395
Chemical nature Aqueous solution of alkali salts
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Straw - light pink

Physical state Liquid

Odor None

GHS Classification

Physical Hazards

Corrosive to Metals

Category 1

Health Hazard

Skin Corrosion/Irritation

Category 1

Serious Eye Damage/Eye Irritation

Category 1

Specific target organ toxicity (repeated exposure)

Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

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.

P332 + P313 - If skin irritation 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 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 in accordance with applicable regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Sodium molybdate dihydrate	10102-40-6	5-10
Sodium tolyltriazole	64665-57-2	3-7

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

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	No data available
Flammability Limits in Air %:	Hydrogen, by reaction with metals.	Upper:	75
		Lower:	4
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). 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 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 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. Metal containers must be lined. 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	40 °F / 4 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium molybdate dihydrate	TWA: 0.5 mg/m ³ respirable particulate matter	TWA: 5 mg/m ³	No data available
Sodium molybdate	TWA: 0.5 mg/m ³ respirable particulate matter	TWA: 5 mg/m ³	No data available
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	Straw - light pink	Odor	None
Odor Threshold	Not applicable	Appearance	Transparent - Hazy
pH	12.36	Specific Gravity	1.114
Evaporation Rate	0.52 (Butyl acetate=1)	Percent Volatile (Volume)	94.1
VOC Content (%)	0	VOC Content (g/L)	0
Vapor pressure	15.46 mmHg @ 70°F	Vapor Density	0.6 (Air = 1.0)
Solubility	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	No data available
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	Extremes of temperature and direct sunlight.
Incompatible Products	Strong oxidizing agents, Reducing agents, Strong acids, Metals.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NO _x), Sodium oxides, 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	No information available
Dermal LD50	No information available
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 Ingestion.

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. Kidney injury may occur.

Target Organ Effects: Respiratory system, Eyes, Blood, Kidney.

Aggravated Medical Conditions Respiratory disorders, Kidney disorders, Blood disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium molybdate dihydrate 10102-40-6	>2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 1.93 mg/L (Rat) (4h)	No data available	No data available
Sodium tolyltriazole 64665-57-2	640 mg/kg	> 2000 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 molybdate dihydrate 10102-40-6	No data available	No data available	No data available	No data available	Blood; Eyes; Respiratory system; Kidney

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information	No information available.
Additional Ecological 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	CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE)
Hazard Class	8
UN-No	UN1719
Packing Group	II
Description	UN1719, CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE), 8, PG II

TDG

Proper shipping name	CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE)
Hazard Class	8
UN-No	UN1719
Packing Group	II
Description	UN1719, CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE), 8, PG II

ICAO

UN-No	UN1719
Proper Shipping Name	CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE)
Hazard Class	8
Packing Group	II
Shipping Description	UN1719, CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE), 8, PG II

IATA

UN-No	UN1719
Proper Shipping Name	CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE), 8
Hazard Class	8
Packing Group	II
Shipping Description	UN1719, CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE), 8, PG II

IMDG/IMO

UN proper shipping name	CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE)
Hazard Class	8
UN Number	UN1719
Packing Group	II
Description	UN1719, CAUSTIC AKALI LIQUIDS, N.O.S., (SODIUM TOLYLTRIAZOLE), 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 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

16. OTHER INFORMATION

Prepared By	Kim Franklin
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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