

# Material Safety Data Sheet: CHEM-AQUA 52800

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHEM-AQUA 52800  
**Recommended use** Water treatment chemical  
**Information on Manufacturer**  
CHEM-AQUA, INC  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** C793  
**Chemical nature** mixture  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**DANGER**  
Corrosive  
Causes skin and eye burns  
Causes respiratory tract irritation  
Harmful or fatal if swallowed

<b>Color Straw</b>	<b>Physical State</b> Liquid	<b>Odor</b> Mild
<b>Potential Health Effects</b>		
<b>Principle Route of Exposure</b>	Skin contact, Eye contact, Inhalation.	
<b>Primary Routes of Entry</b>	Ingestion	
<b>Acute Effects</b>		
<b>Eyes</b>	Corrosive to the eyes and may cause severe damage including blindness.	
<b>Skin</b>	Causes skin burns.	
<b>Inhalation</b>	Harmful by inhalation. Causes burns.	
<b>Ingestion</b>	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May be fatal if swallowed.	
<b>Chronic Toxicity</b>	Liver and kidney injuries may occur. Inhaled corrosive substances can lead to a toxic edema of the lungs.	
<b>Target Organ Effects</b>	Respiratory system, Blood, Kidney, Liver, Bone, Eyes.	
<b>Aggravated Medical Conditions</b>	Skin disorders, Respiratory disorders, Blood disorders, Kidney disorders, Liver disorders.	
<b>Potential Environmental Effects</b>	See Section 12 for additional Ecological information.	

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium molybdate dihydrate	10102-40-6	7-13
Sodium tolyltriazole	64665-57-2	1-5

## 4. FIRST AID MEASURES

<b>General advice</b>	Do not get in eyes, on skin or on clothing. Do not breathe mist.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

## 5. FIRE-FIGHTING MEASURES

<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>	Hydrogen, by reaction with metals.	<b>Upper 75</b>	<b>Lower 4</b>
<b>Suitable Extinguishing Media</b>	Water spray. Carbon dioxide (CO2). Foam. Alcohol-resistant foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>			

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health 2	Flammability 1	Instability 0
HMS	Health 2	Flammability 1	Instability 0

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	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)
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labeled containers
<b>Neutralizing Agent</b>	Acetic acid, diluted.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not get in eyes, on skin or on clothing. Do not breathe mist.			
<b>Storage</b>	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.			
<b>Storage Temperature</b>	<b>Minimum</b>	35 °F / 2 °C	<b>Maximum</b>	120 °F / 49 °C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b> <b>Refrigerated</b>

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium molybdate dihydrate	TWA: 0.5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	No data available
Sodium tolyltriazole	No data available	No data available	No data available

<b>Engineering Measures</b>	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.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles. Face-shield.
<b>Skin Protection</b>	Wear suitable protective clothing, impervious gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General Hygiene Considerations</b>	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**

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Straw	<b>Odor</b>	Mild
<b>Appearance</b>	Transparent - Hazy	<b>pH</b>	12.0
<b>Specific Gravity</b>	1.112	<b>Evaporation Rate</b>	0.52 (Butyl acetate=1)
<b>Percent Volatile (Volume)</b>	94	<b>VOC Content (%)</b>	0
<b>VOC Content (g/L)</b>	0	<b>Vapor Pressure</b>	15.5 mmHg @ 70°F
<b>Vapor Density</b>	0.6 (Air = 1.0)	<b>Solubility</b>	Completely soluble
<b>Boiling Point/Range</b>	No data available		

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight
<b>Incompatible Products</b>	Strong oxidizing agents, Reducing agents, Strong acids, Contact with metals liberates hydrogen gas.
<b>Hazardous Decomposition Products</b>	Carbon oxides, Nitrogen oxides (NOx), Sodium oxides, Hydrogen, by reaction with metals.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

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

**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium molybdate dihydrate	>2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 1.93 mg/L (Rat) (4h)	no data available	no data available
Sodium tolyltriazole	no data available	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 molybdate dihydrate	no data available	no data available	no data available	no data available	respiratory system, eyes, liver, kidneys, blood, bones, joints, teeth
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available

**Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium molybdate dihydrate	A3	not applicable	not applicable	not applicable	not applicable
Sodium tolyltriazole	not applicable	not applicable	not applicable	not applicable	not applicable

**12. ECOLOGICAL INFORMATION**

**Product Information**

Toxicity to fish LC50 = 1902.7 mg/L Pimephales promelas (fathead minnow) 48 h	Daphnia magna (Water flea) LC50 = 2510.7 mg/L Ceriodaphnia dubia (Water flea) 48 h
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**Component Information**

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium molybdate dihydrate	no data available	no data available	no data available	no data available	N/A
Sodium tolyltriazole	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
Sodium molybdate dihydrate	Not applicable	Not applicable
Sodium tolyltriazole	Not applicable	Not applicable

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Toluene	108-88-3	developmental toxicity female reproductive toxicity
Lead	1317-36-8	carcinogen developmental toxicity
Asbestos	1332-21-4	carcinogen
Diaminotoluene (mixed isomers)	25376-45-8	carcinogen
Mercury	7439-97-6	developmental toxicity
Nickel	7440-02-0	carcinogen
Arsenic	7440-38-2	carcinogen
Beryllium	7440-41-7	carcinogen
Cadmium and compounds (as Cd)	7440-43-9	carcinogen
Chromium	7440-47-3	carcinogen developmental toxicity
Cobalt	7440-48-4	carcinogen
o-Nitrotoluene	88-72-2	carcinogen
o-Toluidine	95-53-4	carcinogen

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

E Corrosive material, D2B Toxic materials.



**16. OTHER INFORMATION**

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 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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