

Material Safety Data Sheet: CHEM-AQUA 888

Supersedes Date 05/21/2014

Issuing Date 06/16/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 888
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA
253 ORENDA ROAD
BRAMPTON ONT L6T 1E6

Product Code 058C
Chemical nature Aqueous solution of alkali salts
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER
Corrosive
Causes skin and eye burns
May cause delayed lung injury and burns
Harmful or fatal if swallowed

Color Colorless - Light yellow

Physical State Liquid

Odor Slightly Sweet

Potential Health Effects

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. Liver and kidney injuries may occur. Contains a known or suspected reproductive toxin.

Target Organ Effects

Bone, Central nervous system, Kidney, Liver, Blood, Eyes, Skin, Respiratory system, Reproductive System.

Aggravated Medical Conditions

Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Blood disorders, Neurological disorders.

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium molybdate	7631-95-0
Sodium metaborate tetrahydrate	10555-76-7
Sodium tolyltriazole	64665-57-2
Polycarboxylate, sodium salt	25085-41-0

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 breathing has stopped, apply 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

Not applicable

Autoignition Temperature No information available.

Flammability Limits in Air % Hydrogen, by reaction with metals.

Upper 75

Lower 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

Contact with metals may evolve 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, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health 3	Flammability 1	Instability 0
HMIS	Health 3	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.
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 36 °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
Sodium molybdate	TWA: 0.5 mg/m ³	TWA: 5 mg/m ³	No data available
Sodium metaborate tetrahydrate	TWA: 2 mg/m ³	No data available	No data available
Sodium tolyltriazole	No data available	No data available	No data available
Polycarboxylate, sodium salt	No data available	No data available	No data available

Engineering Measures

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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Colorless - Light yellow	Odor	Slightly Sweet
Appearance	Transparent - Hazy	pH	12.4
Specific Gravity	1.172	Evaporation Rate	0.49 (Butyl acetate=1)
Percent Volatile (Volume)	91.1	VOC Content (%)	0
VOC Content (g/L)	0	Vapor Pressure	14.5 mmHg @ 70°F
Vapor Density	0.6 (Air = 1.0)	Solubility	Completely soluble
Boiling Point/Range	212 °F / 100 °C		

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, Acids.

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.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium molybdate	= 4000 mg/kg (Rat)	no data available	> 2080 mg/m ³ (Rat) 4 h	no data available	no data available
Sodium metaborate tetrahydrate	no data available	no data available	no data available	no data available	no data available
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available
Polycarboxylate, sodium salt	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	no data available	no data available	no data available	no data available	Bones, CNS, kidneys, liver, blood
Sodium metaborate tetrahydrate	no data available	no data available	no data available	X	Testes
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available
Polycarboxylate, sodium salt	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium molybdate	A3	not applicable	not applicable	not applicable	not applicable
Sodium metaborate tetrahydrate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium tolyltriazole	not applicable	not applicable	not applicable	not applicable	not applicable
Polycarboxylate, sodium salt	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
Sodium molybdate	no data available	no data available	no data available	no data available	N/A
Sodium metaborate tetrahydrate	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
Polycarboxylate, sodium salt	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

Proper Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.
Hazard Class 8
UN-No UN3266
Packing Group II
Description UN3266, Corrosive liquid, basic, inorganic, n.o.s.,(Sodium tolyltriazole), 8, PG II

TDG

Proper shipping name Corrosive Liquid, Basic, Inorganic, N.O.S.
Hazard Class 8
UN-No UN3266
Packing Group II
Description UN3266, Corrosive liquid, basic, inorganic, n.o.s.,(Sodium tolyltriazole), 8, PG II

ICAO

UN-No UN3266
Proper Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.

Hazard Class 8
Packing Group II
Shipping Description UN3266, Corrosive liquid, basic, inorganic, n.o.s.,(Sodium tolyltriazole), 8, PG II

IATA

UN-No UN3266
Proper Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.
Hazard Class 8
Packing Group II
Shipping Description UN3266, Corrosive liquid, basic, inorganic, n.o.s.,(Sodium tolyltriazole), 8, PG II

IMDG/IMO

Proper Shipping Name Corrosive Liquid, Basic, Inorganic, N.O.S.
Hazard Class 8
UN-No UN3266
Packing Group II
Shipping Description UN3266, Corrosive liquid, basic, inorganic, 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 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	Not applicable	Not applicable
Sodium metaborate tetrahydrate	Not applicable	Not applicable
Sodium tolyltriazole	Not applicable	Not applicable
Polycarboxylate, sodium salt	Not applicable	Not applicable

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 D2A Very toxic materials



16. OTHER INFORMATION

Prepared By Ana Santiago
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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