Material Safety Data Sheet: CHEM-AQUA 900

Supercedes Date 05/10/2012 **Issuing Date** 02/10/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 900
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code 199C
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
WARNING
Severe skin irritation
May cause allergic skin reaction
Causes severe eye irritation
Causes respiratory tract irritation
May cause allergic respiratory reaction
Harmful if swallowed

Color Dark brown **Physical State** Liquid **Odor** Woody

Potential Health Effects	
Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Skin Absorption, Inhalation.
Acute Effects	
Eyes	Severe irritation.
Skin	Severe irritation. May cause allergic skin reaction.
Inhalation	Causes respiratory tract irritation. May cause allergic respiratory reaction. 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	Irritating to mucous membranes. May produce an allergic reaction.
Chronic Toxicity	May cause sensitization by skin contact. May cause sensitization by inhalation.
Target Organ Effects	Respiratory system, Immune system, Central nervous system.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders, Neurological disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium sulfite	7757-83-7
Sodium lignosulfonate	8061-51-6

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing 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	May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
Autoignition Temperature No information available.
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** 2	**Flammability** 1	**Instability** 0
HMIS	**Health** 2	**Flammability** 1	**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	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** 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
Sodium sulfite	No data available	No data available	No data available
Sodium lignosulfonate	No data available	15 mg/m^3 (vendor data)	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	Tightly fitting safety goggles.
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	Dark brown	**Odor**	Woody
Appearance	Opaque	**pH**	12.4
Specific Gravity	1.18	**Evaporation Rate**	0.49 (Butyl acetate=1)
Percent Volatile (Volume)	83.5	**VOC Content (%)**	0
VOC Content (g/L)	0	**Vapor Pressure**	14.42 mmHg @ 70°F
Vapor Density	0.6 (Air = 1.0)	**Solubility**	Completely soluble
Boiling Point/Range	220 °F / 104 °C		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known
Incompatible Products	Strong oxidizing agents, Strong acids.
Hazardous Decomposition Products	Carbon oxides, Sulfur oxides, Hydrogen sulfide, Sulfur compounds.
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 sulfite	= 820 mg/kg (Rat)	no data available	> 5.5 mg/L (Rat) 4 h > 22 mg/L (Rat) 1 h	no data available	no data available
Sodium lignosulfonate	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 sulfite	no data available	Skin sensitization, respiratory sensitization	no data available	no data available	Respiratory system, Immune system, CNS
Sodium lignosulfonate	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium sulfite	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium lignosulfonate	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 sulfite	no data available	LC50 220 - 460 mg/L Leuciscus idus 96 h	EC50 = 770 mg/L 17 h	LC50= 330 mg/L 24 h	-4
Sodium lignosulfonate	no data available	LC50 = 7300 mg/L Oncorhynchus mykiss 48 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 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 sulfite	Not applicable	Not applicable
Sodium lignosulfonate	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

D2A Very toxic materials D2B Toxic materials

16. OTHER INFORMATION

Prepared By	Devon Kebodeaux
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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