Safety Data Sheet: CHEM-AQUA 11800

Supercedes Date: 03/19/2020 **Issuing Date:** 06/28/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHEM-AQUA 11800
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC

BOX 152170
IRVING, TEXAS 75015

Product Code: 0224
Chemical nature Alkaline solution
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless **Physical state** Liquid **Odor** Odorless

GHS Classification

Physical Hazards

Corrosive to Metals	Category 1

Health Hazard

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H314 - Causes severe skin burns and eye damage
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.
P363 - Wash contaminated clothing before reuse
P332 + P313 - If skin irritation occurs, get medical attention.
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 hydroxide	1310-73-2	30-60

*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 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. Foam. Carbon dioxide (CO2). 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. Contact with metals liberates flammable hydrogen gas.
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	**Physical Hazard** 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. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Do not freeze. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature	**Minimum**	61 °F / 16 °C		**Maximum**	100 °F / 38 °C		
Storage Conditions	**Indoor**	X	**Outdoor**	**Heated**		**Refrigerated**	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
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 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	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	Colorless	**Odor**	Odorless

Odor Threshold	Not applicable	**Appearance**	Transparent
pH	(as 5% solution) 14	**Specific Gravity**	1.53
Evaporation Rate	0.30 (Butyl acetate=1)	**Percent Volatile (Volume)**	67.2
VOC Content (%)	0	**VOC Content (g/L)**	0
Vapor pressure	7.8 mmHg @ 70°F	**Vapor Density**	0.6 (Air = 1.0)
Solubility	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	291 °F / 144 °C	**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	Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Acids, Strong oxidizing agents, Aldehydes, Contact with metals liberates hydrogen gas, Halogenated compounds.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Sodium oxides, Hydrogen, by reaction with metals, Phosgene, Hydroxide.
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	None known.
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.
Target Organ Effects:	Respiratory system, Skin, Eyes.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hydroxide 1310-73-2	325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	No data available	No data available	No data available

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide 1310-73-2	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

Carcinogenicity — There are no known carcinogens in this product.

12. ECOLOGICAL INFORMATION

Product Information — No information available.

Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient

Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information 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** Sodium hydroxide solution
- **Hazard Class** 8
- **UN-No** UN1824
- **Packing Group** II
- **Description** UN1824, Sodium hydroxide solution, 8, PG II

TDG
- **Proper shipping name** Sodium hydroxide solution
- **Hazard Class** 8
- **UN-No** UN1824
- **Packing Group** II
- **Description** Sodium Hydroxide Solution,8,UN1824,PG II

ICAO ICAO
- **UN-No** UN1824
- **Proper Shipping Name** Sodium hydroxide solution
- **Hazard Class** 8
- **Packing Group** II
- **Shipping Description** Sodium hydroxide solution,8,UN1824,PG II

IATA
- **UN-No** UN1824
- **Proper Shipping Name** Sodium hydroxide solution
- **Hazard Class** 8
- **Packing Group** II
- **ERG-Code** 8L
- **Shipping Description** UN1824,Sodium hydroxide solution,8,PG II

IMDG/IMO
- **UN proper shipping name** Sodium hydroxide solution
- **Hazard Class** 8
- **UN Number** UN1824
- **Packing Group** II
- **EmS No.** F-A, S-B
- **Description** UN1824, Sodium hydroxide solution,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

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By	Kim Franklin
Supercedes Date:	03/19/2020
Issuing Date:	06/28/2021
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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