

Safety Data Sheet CHEM-AQUA 31355

Supersedes Date Not applicable

Issuing Date 12/29/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 31355
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code C336
Chemical nature Aqueous dispersion
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Brown

Physical state liquid

Odor Slight

GHS

Classification

Physical Hazards

Corrosive to metals

Category 1

Health Hazard

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin sensitization

Category 1

Category 1

Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
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.
P272 - Contaminated work clothing should not be allowed out of the workplace
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.
P362 - Take off contaminated clothing and wash 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 at rest in a position 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 local regulations.

22 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight % *
2-Phosphonobutane-1,2,4-tricarboxylic acid (PBTC) , Sodium Salt	67170-90-5	1-5
Hydroxyphosphono acetic acid, sodium salt	78620-07-2	1-5
Phosphonic acid, reaction products with maleic anhydride, sodium salts	180513-31-9	1-5
Sodium polyacrylate	9003-04-7	1-5
Maleic anhydride polymer with ethyl acrylate and vinyl acetate, hydrolyzed	113221-69-5	1-5
Polyethylene glycol	25322-68-3	1-5
Tolyltriazole Sodium Salt	64665-57-2	1-5
Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt	20592-85-2	1-5
Sodium hydroxide	1310-73-2	0.1-1

*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 vapors, mist or gas.
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. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point Not applicable	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 (CO ₂). 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, NOHSC (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. 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.			
Storage Temperature	Minimum	32 °F / 0 °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 polyacrylate	3 mg/m ³ PNOS	5 mg/m ³ PNOR	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

Remove and wash contaminated clothing before re-use. 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	Brown	Odor	Slight
Odor Threshold	Not applicable	Appearance	Transparent
pH	13.3	Specific Gravity	1.168
Evaporation Rate	0.47 (Butyl acetate=1)	Percent Volatile (Volume)	84.9
VOC Content (%)	0	VOC Content (g/L)	0
Vapor Pressure	14.72 mmHg @ 70°F	Vapor Density	0.6 (Air = 1.0)
Solubility	Not applicable	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	Not applicable	Flammability (solid, gas)	No data available
Flash Point	Not applicable	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	None known.
Incompatible Products	Strong oxidizing agents, Acids, Contact with metals liberates hydrogen gas, Aldehydes, Leather, Halogenated hydrocarbon, Flammable materials.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus, Phosphorus compounds, 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

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, Skin contact, Eye contact, Inhalation.

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. May be fatal if swallowed.

Chronic Toxicity

Inhaled corrosive substances can lead to a toxic edema of the lungs. May cause sensitization by skin contact.

Target Organ Effects

Respiratory system, Eyes, Skin.

Aggravated Medical Conditions

Respiratory disorders, Skin disorders.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium polyacrylate	5000 mg/kg	2000 mg/kg	no data available	no data available	no data available

9003-04-7					
Polyethylene glycol 25322-68-3	no data available	> 20 mL/kg (Rabbit)	no data available	no data available	no data available
Sodium hydroxide 1310-73-2	no data available	= 1350 mg/kg (Rabbit)	no data available	no data available	no data available

Component	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 carcinogenic substances in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	log Pow
Polyethylene glycol	No information available.	LC50 > 5000 mg/L Carassius auratus 24 h	EC50 = 100000 mg/L 15 min	No information available.	N/A
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 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 HYDROXIDE), 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 HYDROXIDE), 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 HYDROXIDE),8,PG II

IATA

UN-No UN3266
Proper Shipping Name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Hazard Class 8
Packing Group II
ERG-Code 8L
Shipping Description UN3266,CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM HYDROXIDE),8,PG II

IMDG/IMO

Proper Shipping Name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Hazard Class 8
UN-No UN3266
Packing Group II
EmS No. F-A, S-B

Description UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM HYDROXIDE),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

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

CERCLA None

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

U.S. State Regulations
California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS No.	California Prop. 65
Lead	1317-36-8	carcinogen developmental toxicity
Asbestos	1332-21-4	carcinogen
Formaldehyde	50-00-0	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

16. OTHER INFORMATION

Prepared By Samantha Purvis
Supersedes Date Not applicable
Issuing Date 12/29/2015
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

CHEM-AQUA, INC assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.