Safety Data Sheet: AQUA-SOL

Supercedes Date 09/16/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AQUA-SOL Recommended use Cleaning agent Information on Manufacturer CERTIFIED LABS, DIV. OF NCH CORP. BOX 152170

IRVING, TEXAS 75015

Product Code 0003 Chemical nature Aqueous surfactant solution **Emergency Telephone Number** CHEMTREC[®] 800-424-9300 Telephone inquiry 972-579-2477

2. HAZARD IDENTIFICATION

2. HA	AZARD IDENTIFICATION	
Color Yellow - Green	Physical State Liquid	Odor Slight
GHS Classification <u>Physical Hazards</u> Substances/mixtures corrosive to metal	Category 1	
<u>Health Hazard</u> Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ systemic toxicity (single exposure) Specific target organ systemic toxicity (repeated exposure) <u>Other hazards</u> None	Category 1 Category 1 Category 3 Category 2	
Labeling <u>Signal Word</u> DANGER		
Hazard Statements H314 - Causes severe skin burns and eye damage H336 - May cause drowsiness or dizziness H373 - May cause damage to organs through prolonged or repeate exposure H290 - May be corrosive to metals	 <u>Precautionary Statements</u> P280 - Wear protective gloves, protective clothing, eye protective P264 - Wash face, hands and any exposed skin thoroughly after P260 - Do not breathe mist. P271 - Use in a well-ventilated area. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately Rinse skin with water or shower P332 + P313 - If skin irritation occurs, get medical attention. P363 - Wash contaminated clothing before reuse P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for Remove contact lenses, if present and easy to do. Continue rins 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 physe P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT imphysician if unwell. P406 - Store in a correspin-registent container 	all contaminated clothing. or several minutes. sing. p at rest in a position

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P390 - Absorb spillage to prevent damage

P406 - Store in a corrosion-resistant container.

P501 - Dispose of contents and container in accordance with applicable regulations.

4 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS					
Component	Component CAS-No Weight %				
2-Butoxyethanol	111-76-2	1-5			

Issuing Date 04/11/2014

Disodium phosphate, anhydrous	7558-79-4	1-5
Trisodium phosphate	7601-54-9	1-5
Benzenesulfonic acid, mono-C10-16 alkyl derivatives, sodium salts	68081-81-2	1-5
Sodium metasilicate	6834-92-0	0.1-1

	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 Flammability Lim Suitable Extingu	, ,	by reaction with metals.	Method Upper 75	Seta closed co Lower	•			
Carbon dioxide (CO2). Foam. Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Specific hazards arising from the chemical								
Protective Equip	ment and Precautions				alent) and full protective gear.			
NFPA HMIS	Health 3 Health 3		mability 1 mability 1		ability 0 ability 0			
		6. ACCIDENTAL	RELEASE MEA	SURES				
Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spi if safe to do so. Material can create slippery conditions.					. Prevent further leakage or spillage			
Environmental P Methods for Cor		Avoid release of neat product into surface water and sanitary sewage system. 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 Clea Neutralizing Age	• •	Pick up and transfer to particular definition of the content of th	roperly labeled con	tainers.				
		7. HANDLIN	NG AND STORA	GE				
HandlingDo not get in eyes, on skin or on clothing. Do not breathe mist.StorageStore 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 TemperatureMinimum35 °F / 2 °CMaximum120 °F / 49 °CStorage ConditionsIndoorXOutdoorHeatedRefrigerated								

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	700 ppm
		TWA: 240 mg/m ³	TWA: 5 ppm
		Skin	TWA: 24 mg/m ³
Disodium phosphate, anhydrous	No data available	5 mg/m ³ PNOR (as solid)	No data available
Trisodium phosphate	No data available	No data available	No data available
Benzenesulfonic acid, mono-C10-16 alkyl derivatives, sodium salts	No data available	No data available	No data available
Sodium metasilicate	No data available	No data available	No data available

Engineering Measures Personal Protective Equipment Eye/Face Protection Skin Protection Respiratory Protection

General Hygiene Considerations

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Tightly fitting safety goggles. Face-shield. Wear suitable protective clothing, Impervious gloves. In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Color
Odor Threshold pH
Evaporation Rate
VOC Content (%)
Vapor Pressure
Solubility
Melting Point/Range
Boiling Point/Range
Flash Point
Autoignition Temperature
Flammability Limits in Air %

Yellow - Green Not applicable 12.4 0.55 (Butyl acetate=1) 3.8 16.6 mmHg @ 70°F Completely soluble No data available 210 °F / 99 °C > 201 °F / > 94 °C No information available. Hydrogen, by reaction with metals. Upper 75 Lower 4

Liquid

Viscosity Odor Appearance Specific Gravity Percent Volatile (Volume) VOC Content (g/L) Vapor Density n-Octanol/Water Partition **Decomposition Temperature** Flammability (solid, gas) Method

Non viscous Slight Transparent 1.04 94.8 40 0.6 (Air = 1.0) No data available No data available No data available Seta closed cup

10. STABILITY AND REACTIVITY

Chemical Stability Conditions to Avoid Incompatible Products

Hazardous Decomposition Products

Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur. None known Strong oxidizing agents, Strong acids, Strong bases, Ammonium salts, Reducing agents, Aldehydes. Carbon oxides, Aldehydes, Sulfur oxides, Hydrogen, by reaction with metals. None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated	based on chapter 3.1 of the GHS document (Rev. 3, 2009):
Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available not hazardous by inhalation
Mist	No information available
Vapor	No information available
Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Skin Absorption, Inhalation.
Acute Effects	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns. May be absorbed through the skin in harmful amounts.
Inhalation	Harmful by inhalation. Causes burns. May cause central nervous system depression. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Blood disorder may occur after prolonged inhalation. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acidosis.
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 carcinogen. May cause damage to the kidneys/liver/eyes/brain/respiratory system/central nervous system if inhaled.
Target Organ Effects	Central Nervous System, Respiratory system, Lymphatic System, Blood, Liver, Kidney, Spleen, Skin, Eyes.
Aggravated Medical Conditions	Respiratory disorders, Kidney disorders, Liver disorders, Neurological disorders, Skin disorders, Blood disorders.
Component Information	
Acute Toxicity	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other	
2-Butoxyethanol	= 470 mg/kg (Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h	no data available	no data available	

Disodium phosphate, anhydrous	no data available	no data available	no data available	no data available	no data available
Trisodium phosphate	> 2000 mg/kg (Rat)	> 300 mg/kg (Rabbit)	> 2.16 mg/L (Rat) 1 h	no data available	no data available
Benzenesulfonic acid, mono- C10-16 alkyl derivatives, sodium salts	no data available	no data available	no data available	no data available	no data available
Sodium metasilicate	= 600 mg/kg (Rat)	no data available	no data available	no data available	no data available
Component	Mutagenicity	Sensitization	Developmental Toxicity	Poproductivo Toxicity	Target Organ Effects
· · · · · · · · · · · · · · · · · · ·	8 1				
2-Butoxyethanol	no data available	no data available	no data available	no data available	liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system
Disodium phosphate, anhydrous	no data available	no data available	no data available	no data available	no data available
Trisodium phosphate	no data available	no data available	no data available	no data available	no data available
Benzenesulfonic acid, mono- C10-16 alkyl derivatives, sodium salts	no data available	no data available	no data available	no data available	no data available
Sodium metasilicate	no data available	no data available	no data available	no data available	no data available

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinoger				carcinogen.	
Component	ACGIH	IARC	NTP	OSHA	Other
2-Butoxyethanol	A3	Group 3	not applicable	not applicable	not applicable
Disodium phosphate, anhydrous	not applicable				
Trisodium phosphate	not applicable				
Benzenesulfonic acid, mono- C10-16 alkyl derivatives, sodium salts	not applicable				
Sodium metasilicate	not applicable				

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
2-Butoxyethanol	no data available	LC50 = 1490 mg/L Lepomis	no data available	1698 - 1940: 24 h	0.81
		macrochirus 96 h		Daphnia magna mg/L	
		LC50 = 2950 mg/L Lepomis		EC50	
		macrochirus 96 h		1000: 48 h Daphnia	
				magna mg/L EC50	
Disodium phosphate, anhydrous	no data available	no data available	no data available	no data available	N/A
Trisodium phosphate	no data available	no data available	no data available	no data available	N/A
Benzenesulfonic acid, mono-C10-	no data available	no data available	no data available	no data available	N/A
16 alkyl derivatives, sodium salts					
Sodium metasilicate	no data available	LC50 = 210 mg/L Brachydanio rerio	no data available	216: 96 h Daphnia magna	N/A
		96 h		mg/L EC50	

Persistence and Degradability Bioaccumulation Mobility

No information available. No information available. No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal **Container Disposal** Dispose of in accordance with local regulations. 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	
	Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s., (Sodium metasilicate), 8, PG II

	Hazard Class UN-No Packing Group	8 UN3266 II
ICAO		
	UN-No	UN3266
	Proper Shipping Name	Corrosive liquid, basic inorganic, n.o.s.
	Hazard Class	8
	Packing Group	
	Shipping Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s., (Sodium metasilicate), 8, PG II
ΙΑΤΑ	UN-No Proper Shipping Name Hazard Class Packing Group Shipping Description	UN3266 Corrosive liquid, basic inorganic, n.o.s. 8 II UN3266, Corrosive liquid, basic, inorganic, n.o.s.,(Sodium metasilicate), 8, PG II
IMDG	'IMO	
	Proper Shipping Name	Corrosive liquid, basic inorganic, n.o.s.
	Hazard Class	8
	UN-No	UN3266
	Packing Group	
	Shipping Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s., (Sodium metasilicate), 8, PG II

15. REGULATORY INFORMATION

Inventories	
TSCA	
DSL	
U.S. Federal Regulations	
SARA 313	

 λ of Title III of the Superfund Amendments and Resulterization Act of 1986 (SARA). This product of

Complies Complies

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
2-Butoxyethanol	111-76-2	1-5	1.0

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	•			a
Component		Hazardous Substanc	es RQs	CERCLA EHS RQs
2-Butoxyethanol		Not applicable		Not applicable
Disodium phosphate, anhydrous		5000 lb		Not applicable
Trisodium phosphate		5000 lb		Not applicable
Benzenesulfonic acid, mono-C10-16 alkyl derivatives,		Not applicable		Not applicable
sodiur	n salts			
Sodium m	etasilicate	Not applicable		Not applicable

16. OTHER INFORMATION

Prepared By	Adrienne McKee
Supercedes Date	09/16/2013
Issuing Date	04/11/2014
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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