# Safety Data Sheet: CHEM-AQUA 565

Supercedes Date 08/18/2011

Issuing Date 01/16/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 565
Recommended use Water treatment chemical Information on Manufacturer
CHEM-AQUA, INC

BOX 152170 IRVING, TEXAS 75015 Product Code 0685
Chemical nature Aqueous dispersion
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

### 2. HAZARD IDENTIFICATION

 Color Colorless - Pale Yellow
 Physical State Liquid
 Odor Ammoniacal

### **GHS**

### Classification

#### Physical Hazards

Substances/mixtures corrosive to metal

Category 1

#### Health Hazard

Acute Oral Toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ systemic toxicity (repeated exposure)

Category 1

Category 1

Category 2

Other hazards

None

### Labeling Signal Word DANGER



### Hazard Statements

H314 - Causes severe skin burns and eye damage

H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

H290 - May be corrosive to metals

## Precautionary Statements

 $\label{eq:protective} \mbox{P280 - Wear protective gloves, protective clothing, eye protection and face protection.}$ 

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe mist

P270 - Do not eat, drink or smoke when using this product

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.

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.

P406 - Store in a corrosion-resistant container.

P390 - Absorb spillage to prevent damage

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium nitrite	7632-00-0	5-10
Sodium hydroxide	1310-73-2	1-5

### 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 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. Rinse mouth.

Notes to physician The product causes burns of eyes, skin and mucous membranes.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Foam. Dry chemical. Carbon dioxide (CO2). 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 1
HMIS Health 3 Flammability 1 Instability 1

### 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,

 $diatomaceous\ earth,\ vermiculite)\ and\ transfer\ to\ a\ container\ for\ disposal\ according\ to\ local\ /\ national\ according\ to\ local\ national\ according\ to\ local\ national\ n$ 

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.

Storage TemperatureMinimum35 °F / 2 °CMaximum120 °F / 49 °CStorage ConditionsIndoorXOutdoorHeatedRefrigerated

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium nitrite	No data available	No data available	No data available
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
			Ceiling: 2 mg/m <sup>3</sup>

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 Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the

workstation location. Do not eat, drink or smoke when using this product. Remove and wash

contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Non viscous

**Physical State** Liquid

Color Colorless - Pale Yellow Odor Ammoniacal **Odor Threshold** Not applicable **Appearance** Transparent pН 13.2 Specific Gravity 1.06

0.55 (Butyl acetate=1) Percent Volatile (Volume) **Evaporation Rate** 95.3 **VOC Content (%)** 0.4 VOC Content (g/L) 4 **Vapor Pressure** 16.07 mmHg @ 70°F Vapor Density 0.6

Solubility n-Octanol/Water Partition No data available Completely soluble Melting Point/Range No data available **Decomposition Temperature** No data available **Boiling Point/Range** 212 °F / 100 °C Flammability (solid, gas) No data available Flash Point > 201 °F / > 94 °C Method Seta closed cup

**Autoignition Temperature** No information available.

Flammability Limits in Air % **Upper** 75.0 **Lower** 4.0 Hydrogen.

### 10. STABILITY AND REACTIVITY

Viscosity

**Chemical Stability** Stable. Hazardous polymerization does not occur. **Conditions to Avoid** Exposure to air or moisture over prolonged periods

**Incompatible Products** Acids and bases, Oxidizing agents.

**Hazardous Decomposition Products** Thermal decomposition can lead to release of irritating gases and

vapors, Hydrogen.

**Possibility of Hazardous Reactions** 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 1,256.98 **Dermal LD50** 84,047.81

Inhalation LC50

Gas No information available

81.48 Mist Vapor 81.43

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry** Inhalation, Ingestion.

Acute Effects

Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Eyes

Skin Causes skin burns.

Inhalation Harmful by inhalation. Causes burns.

Ingestion Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. **Chronic Toxicity** Methemoglobinemia. Inhaled corrosive substances can lead to a toxic edema of the lungs. **Target Organ Effects** Skin, Eyes, Respiratory system, Blood, Central nervous system, Heart, Liver, Lungs, Kidney, Spleen.

**Aggravated Medical Conditions** Respiratory system, Skin disorders, Kidney disorders, Liver disorders, Neurological disorders.

Component Information

**Acute Toxicity** 

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
	Sodium nitrite	= 85 mg/kg ( Rat )	no data available	= 5.5 mg/L ( Rat ) 4 h	no data available	no data available
ſ	Sodium hydroxide	no data available	= 1350 mg/kg ( Rabbit )	no data available	no data available	no data available

### **Chronic Toxicity**

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium nitrite	no data available	no data available	no data available	no data available	liver, kidneys, nervous system, spleen, blood, heart
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium nitrite	not applicable				
Sodium hydroxide	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 nitrite	no data available	LC50 = 0.19 mg/L Oncorhynchus	no data available	no data available	-3.7
		mykiss 96 h			
		LC50 0.092 - 0.13 mg/L			
		Oncorhynchus mykiss 96 h			
		LC50 0.4 - 0.6 mg/L Oncorhynchus			
		mykiss 96 h			
		LC50 0.65 - 1 mg/L Oncorhynchus			
		mykiss 96 h			
		LC50 = 2.3 mg/L Pimephales			
		promelas 96 h			
		LC50 = 20 mg/L Pimephales			
		promelas 96 h			
Sodium hydroxide	no data available	LC50 = 45.4 mg/L Oncorhynchus	no data available	no data available	N/A
		mykiss 96 h			

Persistence and Degradability

Bioaccumulation

No information available.

No information available.

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 Caustic alkali liquids, n.o.s.

Hazard Class 8
UN-No UN1719
Packing Group III

**Reportable Quantity (RQ)** Sodium nitrite, RQ kg = 672.5946

Description Caustic alkali liquids, n.o.s.(Sodium Hydroxide),8,UN1719,PG III

TDG

Proper shipping name Caustic alkali liquid, n.o.s

Hazard Class 8
UN-No UN1719
Packing Group III

ICAO

**UN-No** UN1719

Proper Shipping Name Caustic alkali liquid, n.o.s.

Hazard Class 8
Packing Group

IATA

**UN-No** UN1719

Proper Shipping Name Caustic alkali liquid, n.o.s.\*

Hazard Class 8
Packing Group III
ERG Code 8L

Shipping Description UN1719, Caustic alkali liquid, n.o.s., (Sodium hydroxide), 8, PG III

IMDG/IMO

Proper Shipping Name Caustic alkali liquid, n.o.s.

 Hazard Class
 8

 UN-No
 UN1719

 Packing Group
 III

 EmS No.
 F-A, S-B

Shipping Description UN1719, Caustic alkali liquid, n.o.s., (Sodium hydroxide),8,PG III

# 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 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
Sodium nitrite	7632-00-0	5-10	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium nitrite	100 lb	Not applicable
Sodium hydroxide	1000 lb	Not applicable

## 16. OTHER INFORMATION

Prepared By Angela Hutson
Supercedes Date 08/18/2011
Issuing Date 01/16/2014

Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

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