# Safety Data Sheet: CHEM-AQUA 18011

Supercedes Date 10/24/2017

Issuing Date 08/19/2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 18011 Recommended use Water treatment chemical Information on Manufacturer CHEM-AQUA, INC BOX 152170 IRVING, TEXAS 75015

Product Code 12060936 Chemical nature Amines solution **Emergency Telephone** CHEMTREC® 800-424-9300 Telephone inquiry 972-579-2477

## 2. HAZARD IDENTIFICATION

Color Colorless - Light yellow

Physical state Liquid

Odor Fishy ammonia

#### GHS

#### Classification

Physical Hazards

Flammable liquids Corrosive to metals

Category 3 Category 1

Category 4

Category 4

Category 4

Category 1

Category 1

Category 2

### <u>Health Hazard</u>

Acute Inhalation Toxicity - Gas Acute Inhalation Toxicity - Vapors Acute toxicity - Inhalation (Dusts/Mists) Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation Reproductive Toxicity

Other hazards

None

Labeling Signal Word DANGER



### Hazard statements

H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

H361 - Suspected of damaging fertility or the unborn child

H290 - May be corrosive to metals

#### Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating and lighting equipment

P243 - Take precautionary measures against static discharge

P242 - Use only non-sparking tools

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 and vapor.

P271 - Use in a well-ventilated area.

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.

P363 - Wash contaminated clothing 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 comfortable for

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.

P403 + P235 - Store in a well-ventilated place. Keep cool

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2-Diethylaminoethanol	· TWA: 2 ppm	TWA: 10 ppm	100 ppm
	Skin	TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm
		Skin	TWA: 50 mg/m <sup>3</sup>
Cyclohexylamine	TWA: 10 ppm	No data available	TWA: 10 ppm
			TWA: 40 mg/m <sup>3</sup>
Morpholine	TWA: 20 ppm	TWA: 20 ppm	1400 ppm
	Skin	TWA: 70 mg/m <sup>3</sup>	STEL 30 ppm
		Skin	STEL 105 mg/m <sup>3</sup>
			TWA: 20 ppm
			TWA: 70 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
Skin Protection
Respiratory Protection

Tightly fitting safety goggles. Face-shield.

Wear suitable protective clothing, Impervious gloves.

In case of insufficient ventilation wear suitable respiratory equipment. 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

Physical state

Color

Odor Threshold

pН

Evaporation Rate

VOC Content (%) Vapor pressure

Solubility Melting Point/Range Boiling Point/Range

Flash Point

Autoignition Temperature

Flammability Limits in Air %:

Liquid

Colorless - Light yellow Not applicable

12.6

0.54 (Butyl acetate=1)

16.43 mmHg @ 70°F Completely soluble

No data available 210 °F / 99 °C 138 °F / 59 °C

No information available.

Mixture

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 Fishy ammonia

Fishy ammonia Transparent 0.990 100 396

0.7 (Air = 1.0) No data available No data available No data available

Pensky Marten Closed Tester

Upper: 12 Lower: 1.5

### 10. STABILITY AND REACTIVITY

Chemical Stability
Conditions to Avoid

Incompatible Products

Decomposition Temperature Hazardous Decomposition Products

Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur.

Keep away from open flames, hot surfaces, and sources of ignition.

Strong oxidizing agents, Strong acids, Organic

materials, Metals, Nitrous acid and other nitrosating agents, Contact

with metals liberates hydrogen gas.

No data available

Carbon oxides, Nitrogen oxides

(NOx), Ammonia, Aldehydes, Hydrocarbons, Ketones, Hydrogen, by

reaction with metals.

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 Dermal LD50 No information available No information available

Inhalation LC50

Mist

Vapor

No information available No information available No information available

Principle Route of Exposure Primary Routes of Entry

Skin contact, Eye contact, Inhalation. Skin contact, Skin Absorption.

Acute Effects:

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

Causes skin burns.

Inhalation Causes burns. Harmful by inhalation.

#### 14. TRANSPORT INFORMATION

DOT

**Proper Shipping Name** 

Corrosive liquids, flammable, n.o.s.

**Hazard Class** 

**Subsidiary Hazard Class** 

3

**UN-No** 

UN2920

**Packing Group** 

Description

UN2920, Corrosive liquids, flammable, n.o.s., (Morpholine, Cyclohexylamine), 8(3), PG II

Proper shipping name

Corrosive liquids, flammable, n.o.s.

**Hazard Class** 

8

**Subsidiary Hazard Class** 

3

UN-No Packing Group UN2920

Description

UN2920, Corrosive liquids, flammable, n.o.s., (Morpholine, Cyclohexylamine), 8(3), PG II

ICAO

UN-No

UN2920

**Proper Shipping Name** 

Corrosive liquids, flammable, n.o.s.

**Hazard Class** 

8

**Subsidiary Hazard Class** 

3

**Packing Group Shipping Description** 

UN2920, Corrosive liquids, flammable, n.o.s., (Morpholine, Cyclohexylamine), 8(3), PG II

IATA

UN-No

UN2920

**Proper Shipping Name** 

Corrosive liquids, flammable, n.o.s.

**Hazard Class** 

8 3

Subsidiary hazard class **Packing Group** 

II 8L

ERG-Code **Shipping Description** 

UN2920, Corrosive liquids, flammable, n.o.s., (Morpholine, Cyclohexylamine), 8(3), PG II

IMDG/IMO

UN proper shipping name

Corrosive liquids, flammable, n.o.s.

**Hazard Class** 

3

**Subsidiary Hazard Class** 

UN2920

**UN Number Packing Group** 

EmS No.

F-A, S-B

Description

UN2920, Corrosive liquids, flammable, n.o.s., (Morpholine, Cyclohexylamine), 8(3), PG II

### **15. REGULATORY INFORMATION**

Inventories

**TSCA** DSL

Complies 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
Cyclohexylamine	Not applicable	10000 lb TPQ
		10000 lb

## **16. OTHER INFORMATION**

Prepared By Supercedes Date Adrienne McKee 10/24/2017

**Issuing Date** Reason for Revision 08/19/2019

No information available. No information available.

Glossary