

# Safety Data Sheet



According to: The Regulations for Hazardous Chemical Agents, 2021 and Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev. 9.

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TEL: | +27 18 293 1028 | +27 18 285 1014

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Reg. No. 1974/000531/07

PO Box 1097 | Potchefstroom | 2520 | South Africa

11 Jasper vd Westhuizen Str | Potchindustria | Potchefstroom | 2531

Product range: *AqCua*®

## SECTION 1: Identification of the substance / mixture and of the supplier

### 1.1 Product identifiers

Product (trade) name : *AqCua*® Cuphlex SA

Substance name : *AqCua*® Cuphlex SA

Product range : *AqCua*®

### 1.2 Relevant identified uses of the substance or mixture and restrictions on use

#### Relevant identified uses

Used as an algacide, ore floatation, additive in treatment of water.

#### Restrictions on use

Avoid release into the environment; use personal protective equipment.

### 1.3 Details of the supplier of the safety data sheet

Company : Kimleigh Chemicals SA (Pty) Ltd

Address : 11 Jasper van der Westhuizen Street, Potchindustria, Potchefstroom 2531, North West province, South Africa

Telephone : +27 18 293 1028; +27 18 285 1014

WhatsApp : +27 71 426 3648

E-mail address : [sheq@kimleigh.co.za](mailto:sheq@kimleigh.co.za)

### 1.4 Emergency telephone number

Emergency phone number: +27 18 293 1028; +27 18 285 1014

Monday to Thursday from 7:00 a.m. to 5:00 p.m.; Friday from 7:00 a.m. to 14:00 p.m.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9 and Regulation (EC) No 1272/2008

GHS Hazard class	GHS Hazard category	GHS Hazard statement codes
Serious eye damage / irritation	1	H318
Specific target organ toxicity – single exposure	3	H335
Hazardous to the aquatic environment, short-term (Acute)	1	H400
Hazardous to the aquatic environment, long-term (Chronic)	1	H410

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## 2.2 Label elements

Labelling according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9 and Regulation (EC) No 1272/2008

Pictogram(s)			
Signal word(s)	Danger		

### Hazard statement(s)

- H318 : Causes serious eye damage.  
H335 : May cause respiratory irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

- P261 : Avoid breathing dust / fume / gas / mist / vapours / spray.  
P264 + P265 : Wash hands thoroughly after handling. Do not touch eyes.  
P271 : Use only outdoors or in a well-ventilated area.  
P273 : Avoid release to the environment.  
P280 : Wear protective gloves / protective clothing / eye protection / face protection / hearing protection.  
P304 + P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P338 + P354 : IF IN EYES: immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P319 : Get medical help if you feel unwell.  
P391 : Collect spillage.  
P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.  
P405 : Store locked up.  
P501 : Dispose of contents/container in accordance with national regulations.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

Chemical identity : Mixture (*AqCua*<sup>®</sup> Cuphlex SA)

(IUPAC / CAS name)

Common name : Copper complex solution

Synonyms : None

Appearance : Blue odourless solution

Purity : Copper (Cu) at 2.8 % min (m/m).

Compound	Concentration (%)
Compound A (Proprietary)	9.92
Compound B (Proprietary)	11.20
Non-hazardous ingredients	78.88

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General advice

Consult a physician in case of emergency. Show this safety data sheet to the doctor in attendance.

#### If inhaled

Following inhalation, move the affected person to fresh air. If not breathing, give artificial respiration. If difficulty breathing, give oxygen. Seek medical attention immediately.

#### In case of skin contact

In case of contact, immediately rinse skin with copious amounts of cold water, while removing contaminated clothes and shoes. Cover the irritated skin with an emollient. Wash exposed clothing and shoes before reuse. Seek medical attention if irritation persists.

#### In case of eye contact

In case of contact, remove any contact lenses and rinse eyes with copious amounts of water for at least 15 minutes. Cold water may be used. Seek immediate medical attention.

#### If swallowed

Following ingestion, rinse mouth with copious amounts of water. Seek immediate medical attention. Do not induce vomiting unless directed otherwise by a medical practitioner. Never administer anything by mouth to an unconscious person.

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## 4.2 Most important symptoms and effects, both acute and delayed

### *If inhaled*

Coughing; sore and dry throat; irritation of nasal and respiratory passages; shortness of breath.

### *In case of skin contact*

Redness; pain; swelling.

### *In case of eye contact*

Causes serious eye damage; redness; pain; itching; watering; visual disturbances such as blurred vision.

### *If swallowed*

Stomach pain; burning sensation in mouth; diarrhoea; nausea, vomiting, shock.

## 4.3 Indication of any immediate medical attention and special treatment needed

Physician should treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### *Suitable extinguishing media*

Use dry chemicals, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, water spray or fog. The product is non-combustible.

#### *Unsuitable extinguishing media*

No limitations on extinguishing agents are available.

### 5.2 Special hazards arising from the substance or mixture

Produces oxides of sulphur, carbon dioxide / monoxide, and copper on combustion or thermal decomposition.

### 5.3 Special PPE and precautions for firefighters

In the event of fire, wear positive-pressure self-contained breathing apparatus and appropriate protective clothing. Control fire extinguishing water from contaminating surface and ground water reservoirs by containing and keeping the run-off water separate. Water mist may be used to cool closed containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

*For non-emergency personnel*

Wear respiratory protection. Avoid inhalation of vapours, mist or gas. Ensure adequate ventilation. Avoid contact with skin and eyes. Evacuate personnel to safe areas.

For personal protection, please see section 8.

### 6.2 Environmental precautions

Avoid release into the environment. Do not discharge into drains, sewage systems or onto the ground. Avoid spillage or run-off entering drains, sewage systems or watercourses. Immediately report uncontrolled spillage or discharges to an appropriate regulatory body.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Do not touch spilled material. Contain spillage and collect with non-combustible liquid absorbent material (e.g., sand, soil, diatomaceous earth, vermiculite) and place in container for disposal according to national regulations. Label the container appropriately and remove from the area as soon as possible.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handle with care in accordance with good industrial hygiene and safety practices. Do not swallow or inhale spray, mist or vapours. Avoid contact with eyes, skin and any form of ingestion. Avoid the formation of aerosols. Wear suitable protective clothing such as overalls, boots, rubber gloves, safety goggles, nose and mouth protection. Wash contaminated clothing daily. Provide appropriate ventilation where inhalation might occur. If skin or eye contact occurs, wash thoroughly with water.

Do not eat, drink or smoke when using this substance. Avoid contamination of food, foodstuffs, eating utensils and drinking water by washing-up before entering eating areas. Do not discharge product residues into the environment.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Store in an airtight container in a cool, dry and well-ventilated place. Keep away from food, foodstuffs, incompatible substances, steel structures or steel components. Close container tightly after opening.

Store only in sealed polypropylene or stainless-steel containers. Store away from direct sunlight and heat.

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## SECTION 8: Exposure controls / Personal protection

### 8.1 Control parameters

*Occupational exposure limits (OEL)*

#### Compound A

OSHA (TWA over 8 hours)

: The legal airborne permissible exposure limit (PEL) is 5 mg/m<sup>3</sup> for citric acid respirable fraction.

#### Compound B

European Agency for Safety and Health at Work (OSHA) (TWA over 8 hours) : The legal airborne permissible exposure limit (PEL) is 1 mg/m<sup>3</sup> for copper dusts and mists, and 0.1 mg/m<sup>3</sup> for copper fumes.

NIOSH (TWA over 10 hours)

: The recommended airborne exposure limit (REL) is 1 mg/m<sup>3</sup> for copper dusts and mists, and 0.1 mg/m<sup>3</sup> for copper fumes.

ACGIH (TWA over 8 hours)

: The threshold limit value (TLV) is 1 mg/m<sup>3</sup> for copper dusts and mists, and 0.2 mg/m<sup>3</sup> for copper fumes.

GN 1179 of 25 August 1995: Hazardous chemical substances regulations, Government Gazette, RSA.

: The threshold weighted average (TWA) is 1 mg/m<sup>3</sup> for copper dusts and mists, 0.2 mg/m<sup>3</sup> for copper fumes, and 2 mg/m<sup>3</sup> for copper dusts and mists according to the short-term OEL-RL.

### 8.2 Appropriate engineering controls

Provide adequate general and local exhaust ventilation to ensure that the airborne levels remain below the recommended exposure limits. Avoid contact with eyes, skin and clothing. Wash hands immediately after handling the product. Comply with good industrial hygiene practices. Provide an eyewash station and a safety shower in case of emergency.

### 8.3 Personal protective equipment

Eye/Face protection

: Use a face shield and tightly fitting safety goggles as equipment for eye/face protection that are approved under appropriate governmental standards such as NIOSH (US) or EN 166 (EU).

Skin protection

: Wear nitrile rubber gloves when handling the substance. Gloves must be inspected prior to use and properly removed after handling this substance, to prevent skin contact. Dispose of contaminated gloves after use in accordance with applicable regulatory guidelines and good laboratory practices. Wash and dry hands. Wear safety boots as well.

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Recommendations for gloves:

Nitrile rubber; thickness > 0.11 mm; breakthrough time > 480 minutes.

- Body protection : Use a full acid resistant suit protecting against chemicals.
- Respiratory protection : Wear approved respiratory protection that are compliant with the EN140 standard as a minimum.
- Thermal hazard : Not applicable.
- Control of environmental exposure : Do not let the substance enter drains or sewage systems and prevent leakages or spillage or any form of discharge into the environment. Do not allow the substance to contaminate ground water systems.

## SECTION 9: Physical and chemical properties

- Physical state : Aqueous solution.
- Colour : Blue
- Odour : Odourless
- pH : 5.2 at 50 g/L at 25 °C
- Melting point/freezing point : 0 °C.
- Initial boiling point and boiling range : 100 °C.
- Flammability : No data available.
- Lower and upper explosion limit / flammability limit : No data available.
- Flash point : No data available.
- Auto-ignition temperature : No data available.
- Decomposition temperature : No data available.
- Kinematic viscosity : No data available.
- Solubility : Very soluble in water.
- Partition coefficient (n-octanol/water) : No data available.
- Vapour pressure : No data available.
- Density : 1.11 kg/L at 20 °C
- Relative vapour density : No data available.
- Particle characteristics : Not applicable.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The substance is stable under standard ambient conditions (room temperature). No decomposition will occur if the substance is used and stored according to specifications.

### 10.2 Chemical stability

The substance is chemically stable under standard ambient conditions (room temperature). No decomposition will occur if the substance is used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

The mixture is slightly acidic when dissolved in water and can react with magnesium to form hydrogen gas. It can have an exothermic reaction with strong oxidizing agents such as magnesium and hydroxylamine, forming toxic sulphur dioxide fumes.

### 10.4 Conditions to avoid

Avoid contact with strong alkalis, acetylene; hydroxylamine; magnesium; potassium chlorate and oxidising agents. Avoid contact with steel.

### 10.5 Incompatible materials

Avoid contact with strong alkalis, acetylene; hydroxylamine; magnesium; potassium chlorate and oxidising agents. Avoid contact with steel.

### 10.6 Hazardous decomposition products

Toxic sulphurous oxides, and copper oxides; copper fumes and carbon dioxide / monoxides.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Classification according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9, The National Institute for Occupational Safety and Health (NIOSH) and Regulation (EC) No 1272/2008

#### Acute toxicity:

Route of exposure	Concentration of relevant ingredients in mixture	Dose / concentration; test subject	Calculated ATE <sub>mix</sub>
Ingestion (oral)	Mixture – 21.12 % Non-hazardous ingredients – 78.88 %	LD <sub>50</sub> ; rat Calculated GHS method	4125.92 mg/kg bw
Inhalation		No data available	
Dermal		LD <sub>50</sub> ; rat Calculated GHS method	11837.12 mg/kg bw

The mixture contains several ingredients that act as diluents, preservatives and surfactants. We categorize these ingredients as non-hazardous, seeing as each of them are non-hazardous or present in the mixture at concentrations below the generic cut-off values/concentration limits indicated in Table 1.5.1 on p. 35 (GHS, Rev. 9, 2021). These ingredients and their specific ratios are part of proprietary information.

#### Skin corrosion / irritation:

Based on the data obtained from all raw materials, no signs of skin corrosion / irritation should occur.

#### Serious eye damage / eye irritation:

Since 21.12 % of the total mixture consists of raw materials that can result in serious eye damage in rabbits (classified as category 1), AqCua® Cuphlex SA should be classified as Category 1 for eye damage.

#### Respiratory or skin sensitization:

Based on the data obtained from all raw materials, no signs of respiratory or skin sensitization should occur.

#### Germ cell mutagenicity:

Based on the data obtained from all raw materials, AqCua® Cuphlex SA should not result in germ cell mutagenicity.

#### Carcinogenicity:

No carcinogenic effects occurred for any of the raw materials; therefore, AqCua® Cuphlex SA should not result in carcinogenicity.

#### Reproductive toxicity:

Based on the data obtained from all raw materials, AqCua® Cuphlex SA should not result in reproductive toxicity.

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## Specific target organ toxicity (STOT) - single exposure:

Exposure to Compound A induced a cough in all subjects. Seeing as the mixture consists of 9.92 % of Compound A, the mixture should be classified for STOT-SE in Category 3, for respiratory tract irritation.

## Specific target organ toxicity (STOT) - repeated exposure:

No specific target organ toxicity effects occurred for any of the raw materials after repeated exposure; therefore, AqCua® Cuphlex SA should not result in STOT-RE.

## Aspiration hazard:

No data is available for AqCua® Cuphlex SA in this regard.

## 11.2 Additional Information

No selective neurotoxic and immunotoxic effects are associated with this mixture.

## SECTION 12: Ecological information

### 12.1 Toxicity

Classification according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev.9, The National Institute for Occupational Safety and Health (NIOSH) and Regulation (EC) No 1272/2008

Type of toxicity	Concentration of relevant ingredients in mixture	Dose / concentration administered	Calculated L(E)C <sub>50</sub> mix or EqNOEC <sub>mix</sub>
Short-term (acute) aquatic hazard	Compound A – 9.92 % Compound B – 11.20 %	<u>Compound A</u> : LC <sub>50</sub> of >100 mg/L <u>Compound B</u> : LC <sub>50</sub> of 0.032 mg/L	0.032 mg/L
Long-term (chronic) aquatic hazard	Non-hazardous ingredients – 78.88 %	<u>Compound A</u> : No data available <u>Compound B</u> : NOEC of 0.029 mg/L	0.0029 mg/L

The mixture contains several ingredients that act as diluents, preservatives and surfactants. We categorize these ingredients as non-hazardous, seeing as each of them are non-hazardous or present in the mixture at concentrations below the generic cut-off values/concentration limits indicated in Table 1.5.1 on p. 35 (GHS, Rev. 9, 2021). These ingredients and their specific ratios are part of proprietary information.

### 12.2 Persistence and degradability

AqCua® Cuphlex SA is considered as non-rapidly degradable for the purpose of chronic aquatic classification.

### 12.3 Bioaccumulative potential

The mixture contains inorganic metals and the bioaccumulative criteria is not applicable to essential metals. No octanol/water partition coefficient is available.

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## 12.4 Mobility in soil

Seeing as this substance is readily water soluble, it can spread through the environment via water systems. It is highly mobile in soil.

## 12.5 Other adverse effects

The key indicator of copper toxicity is disturbance of the sodium homeostasis. The key target tissue is the water / organism interface, with cell wall and gill-like surfaces acting as target biotic ligands. This mixture does not contribute to ozone depletion, ozone formation, global warming or acidification.

## SECTION 13: Disposal considerations

The generation of waste should be restricted or minimized wherever possible. AqCua® Cuphlex SA is hazardous to the aquatic environment and any form of discharge or leakage into the environment, should be avoided. Do not dispose of this substance in the drain. Dispose of this substance in accordance with the regulations stipulated in the National Environmental Management Waste Act 2008 of South Africa.

## SECTION 14: Transport information

	Land transport (UN TDG/ADR)	Sea transport (IMDG)	Air transport (IATA-DGR)
14.1 UN Number	3082	3082	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (includes AqCua® Cuphlex SA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (includes AqCua® Cuphlex SA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (includes AqCua® Cuphlex SA)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes	Marine pollutant: yes	Yes

## 14.6 Transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

## 14.7 Special precautions for user

Ensure that packaging remains intact. Leakage should be restricted wherever possible.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the substance or mixture

This material safety data sheet complies with the requirements stipulated in The Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 9<sup>th</sup> revised edition, United Nations: New York and Geneva, 2021.

#### National legislation

Occupational Health and Safety Act, 1993 - Hazardous Chemical Agent Regulations 2021.

#### Other regulations

European Agency for Safety and Health at Work (OSHA) guidelines.

The National Institute for Occupational Safety and Health (NIOSH) guidelines.

### 15.2 Chemical Safety Assessment

No chemical safety assessment was carried out for this substance.

## SECTION 16: Other information

### List of abbreviations

ACGIH	: The American Conference of Governmental Industrial Hygienists
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
bw	: Body weight
CAS	: Chemical Abstracts Service
DGR	: Dangerous Goods Regulations
EC	: European Community
ECHA	: The European Chemicals Agency
EN	: European Nations
EU	: European Union
GHS	: Globally Harmonised System of Classification and Labelling of Chemicals
GN	: Government Notice
IATA	: International Air Transport Association
IMDG	: International Maritime Dangerous Goods
IMO	: International Maritime Organization
IUPAC	: International Union of Pure and Applied Chemistry
LC <sub>50</sub>	: Lethal Concentration to 50% of a test population
LD <sub>50</sub>	: Lethal Dose to 50% of a test population (Median Lethal Dose)
NIOSH	: The National Institute for Occupational Safety and Health
NOEC	: No observed effect concentration

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N.O.S.	: Not otherwise specified
OEL	: Occupational exposure limit
OEL-RL	: Occupational exposure limit – recommended limit
OSHA	: The Occupational Safety and Health Administration
PBT	: Persistent, bioaccumulative and toxic
PEL	: Permissible exposure limit
PPE	: Personal protective equipment
REL	: Recommended airborne exposure limit
RSA	: Republic of South Africa
STOT	: Specific target organ toxicity
TDG	: Transport of Dangerous Goods
TLV	: Threshold limit value
TWA	: Threshold weighted average
UN	: United Nations
US	: United States
vPvB	: Very persistent and very bioaccumulative

## References

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