

Safety Data Sheet

According to the International Organization for Standardization, ISO 11014:2009

www.kimleigh.com

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



Reg. No. 1974/000531/07

PO Box 1097 | Potchefstroom | 2520 | South Africa

11 Jasper vd Westhuizen Str | Potchindustria | Potchefstroom | 2531

Trade name: *AqCua*[®] ConCur

Product range: *AqCua*[®]

SECTION 1: Chemical Product and Company Identification

1.1 Product identifier:

Product name : *AqCua*[®] ConCur

Substance name : *AqCua*[®] ConCur

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses

Electroplating, process engraving, lithography and analytical chemistry agent.

Uses advised against:

Avoid release to the environment.

Reasons:

Harmful to both plant and aquatic life. Potential bioaccumulation may lead to ecological disturbances.

1.3 Details of the supplier of the safety data sheet:

Supplier:

Kimleigh Chemicals SA (Pty) Ltd

11 Jasper van der Westhuizen Street, Potchindustria, Potchefstroom, North West Province, 2531, South Africa

Tel no: +27 (18) 293-1028

Fax no: +27 (18) 294-4079

Web : www.kimleigh.com

E-mail : sheq@kimleigh.co.za

1.4 Emergency telephone number:

Kimleigh Chemicals SA (Pty) Ltd: Tel: +27 (18) 293-1028

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SECTION 2: Hazards Identification

2.1. Classification of the substance:

Classification according to the Global Harmonized System (GHS):	Code:	Pictogram:	Signal word:
Health hazards: Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	H311 H315 H319 H335	GHS07 	Warning
Environmental hazards: Very toxic to aquatic life with long lasting effects.	H410	GHS06 	Danger
		GHS09 	Warning

Precautionary statements:

P261	Avoid breathing dust / fume / gas / mist / vapors / spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P361	Remove / take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local / regional / national / international regulations.
P302 + P352	If on skin – wash with plenty of soap and water.
P304 + P340	If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P305 + P351 + P338 If in eyes – rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332 + P313 IF SKIN irritation occurs: Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.2 Potential health effects:

Routes of entry: Eye contact, inhalation, ingestion, absorbed through skin.

Eyes: Can cause eye irritation and local inflammation. Possible corneal burn symptoms include stinging, tearing and redness.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Other symptoms can include irritation of nasal passages, sore throat, shortness of breath and coughing.

Ingestion: May be harmful if swallowed. It may cause irritation and/or burning sensation in the mouth, pharynx, esophagus and gastrointestinal tract. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

This substance has adverse reproductive and fetal effects in animals. Copper is an essential element and its level in the body is strictly controlled. Under most conditions, excess copper is excreted in the urine and faeces.

SECTION 3: Composition/Information on Ingredients

3.1 Mixture:

Mixture name: *AqCua*[®] ConCur
Chemical notation: Proprietary information
Purity: 22% minimum Copper as Cu (m/m)
Synonyms: None
Appearance: Blue and green free flowing powder.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information

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

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Following inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Following skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Following eye contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Following ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SECTION 5: Firefighting Measures

Products of combustion:

Copper oxides and chlorine gas.

Auto-ignition temperature:

Not applicable.

Flash points:

Not applicable.

Flammable limits:

Not applicable.

Explosion hazards in presence of various substances:

Risk of explosion of the product in the presence of static discharge: NO

Risk of explosion of the product in presence of mechanical impact: NO

Fire hazards in presence of various substances:

Not applicable.

Firefighting media and instructions:

Small fire: Use dry chemicals, CO₂, alcohol-resistant foam or water spray.

Large fire: Use alcohol foam, water spray or fog.

Protective clothing (Fire):

Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Special remarks on fire hazards:

Not available.

Special remarks on explosion hazards:

Not available.

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SECTION 6: Accidental Release Measures

Personal Protection: Use personal protective equipment. Avoid substance contact and inhalation. Ensure adequate ventilation.

Respiratory: Dust respirator. Be sure to use a MSHA / NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands: Nitrile rubber gloves.

Eyes: Splash goggles.

Body: Full acid resistant suit.

Feet: Safety boots.

Small spill and leak: Use appropriate tools and personal protective equipment. Pick up spillage. Dispose of in a waste disposal container. Do not allow to enter sewerage system.

Large spill and leak: Use appropriate tools and personal protective equipment. Contain material. Take up spillage limiting generation of dust. Dispose of in a waste disposal container. Do not allow to enter sewerage system.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Protective measures

Advice on safe handling

Handle with care in accordance with good industrial hygiene and safety practices. Minimise dust generation. Avoid inhalation of dust. Avoid contact with eyes and skin and any form of ingestion. Wear suitable protective clothing such as overalls, boots, rubber gloves, goggles, nose and mouth protection and wash contaminated clothing daily. Wash thoroughly with soap and water after use or accidental skin contact.

Do not eat, drink, or smoke during use. Avoid contamination of food, foodstuffs, eating utensils and drinking water. Do not discharge product or residues into rivers, dams and canals.

Advice on safe storage

Store in a cool, dry place away from food and foodstuffs and incompatible substances. Store under lock and key and keep out of reach of children, uninformed persons and animals. Access to water and eye wash facility should be available.

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SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Respiratory: Dust respirator. Be sure to use a MSHA / NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands: Nitrile rubber gloves.

Eyes: Splash goggles.

Body: Full acid resistant suit.

Feet: Safety boots.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: Free flowing powder

Colour: Blue and green

Odour: Slight pungent smell

9.2 Other information:

pH (0.05 mole sol.): 3.2 (acidic)

Melting point: Not available

Boiling point: > 150 °C, decomposes with loss of crystalline water

Thermal decomposition: Complete thermal decomposition will occur at 650 °C

Flash point: Not available

Vapour density: Not available

Flammability/explosive limits: Not available

Bulk density (not compacted) (20 °C): 1.32 (water = 1)

Solubility: 290 g/L (20 °C)

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SECTION 10: Stability and Reactivity

10.1 Reactivity and stability

The product is stable under recommended conditions of storage and use.

10.2 Hazardous decomposition products

Copper oxide, chlorine gas.

10.3 Incompatibility with various substances

Avoid contact with strong oxidising agents such as H₂O₂, F₂, Ca(OCl)₂ and organic peroxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects:

	Effect dose / concentration	Value(s)	Species
Acute oral toxicity (calculated)	LD50	1,515 mg/kg	Rat

11.2 Other information:

Chronic effects on humans:

Carcinogenic effects: No component of this product presented at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Mutagenic effects: Not available.

Teratogenic effects: Not suspected.

Acute effects on humans:

May cause eye irritation. Inflammation of the eye is characterised by redness, watering, and itching.

May be harmful if absorbed through skin. Skin irritant. Skin inflammation is characterized by itching, scaling, reddening or, occasionally blistering.

May be harmful if inhaled. Inhalation may cause damage or irritation of respiratory tract. Symptoms can include irritation of nasal passages, sore throat, shortness of breath and coughing. Target organs: lungs / pulmonary function, central nervous system.

May be harmful if swallowed. It may cause irritation and/or a burning sensation in the mouth, pharynx, oesophagus and gastrointestinal tract. Other symptoms may include abdominal pain, nausea, vomiting and diarrhoea.

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Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs.

A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases.

High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds

Toxicity to reproductive system: Not available.

SECTION 12: Ecological Information

Ecotoxicity: Harmful to both plant and aquatic life. Potential bio-accumulation may lead to ecological disturbances.

Daphnia: *Daphnia magna* (EC50): 0.15 mg/L/48h (Lit)

Algae: *Sc. quadricauda* (IC50): 0.52 mg/L/5d

Biodegradable/OECD: Not available.

Products of biodegradation: Not available.

Mobility: Do not allow to enter water or soil.

Toxicity of the products of biodegradation: The products of degradation are less toxic than the product itself.

SECTION 13: Disposal Considerations

13.1 Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal site (TSD) to assure compliance with all current, local, national, state, Federal and Governmental Regulations.

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SECTION 14: Transport Information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Marine transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN No.	3077	Not Available	3077	3077
14.2 UN Proper shipping name	Environmentally hazardous substance, solid, n.o.s. <i>AqCua</i> [®] ConCur	Not Available	Environmentally hazardous substance, solid, n.o.s. <i>AqCua</i> [®] ConCur	Environmentally hazardous substance, solid, n.o.s. <i>AqCua</i> [®] ConCur
14.3 Transport hazard class(es)	Class 9	Not Available	Class 9	Class 9
Hazard label(s)	GHS09  GHS07  GHS06 	Not Available	GHS09  GHS07  GHS06 	
14.4 Packing group	III	Not Available	III	III
14.5 Transport label				

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Section 15: Regulatory Information

Republic of South Africa Regulations:

National Water Act 36 of 1998.
Occupational Health and Safety Act, 1993.
Environmental Conservation Act 73 of 1989.
Hazardous Substances Act, 1973.
Provincial Ordinances and Local By-laws.

SECTION 16: Other Information

16.1 Hazardous Material Identification System

HAZARD INDEX	
4	Severe Hazard
3	Serious Hazard
2	Moderate Hazard
1	Slight Hazard
0	Minimal Hazard

*An asterisk or other designation corresponds to additional information on a data sheet or separate chronic effects notification

PERSONAL PROTECTION INDEX	
A	G
B	H
C	I
D	J
E	K
F	X

HEALTH		0	1
FLAMMABILITY		0	
PHYSICAL HAZARD		0	
Personal Protection		K	

A	n	o	p	q	r
Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves	Boots	Synthetic Apron
S	t	u	w	y	z
Full Face Respirator	Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator	Airline Hood or Mask

HAZARD RATING	Health	Flammability	Reactivity
	<p>4 - Extreme- Materials that on very short exposure could cause death or major residual injury.</p> <p>3 - Serious- Materials that on short exposure could cause serious temporary or residual injury.</p> <p>2 - Moderate- Materials that on intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.</p> <p>1 - Slight- Materials that on exposure would cause irritation but only minor residual injury.</p> <p>0 - Minimal- Materials that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.</p>	<p>4 - Extreme- Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature, or that are readily dispersed in air and that will burn readily.</p> <p>3 - Serious- Liquids and solids that can be ignited under almost all ambient temperature conditions.</p> <p>2 - Moderate- Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur</p> <p>1 - Slight- Materials that must be preheated before ignition can occur.</p> <p>0 - Minimal- Materials that will not burn.</p>	<p>4 - Extreme- Materials that in themselves are readily capable of detonation or of explosive decomposition or reaction at normal temperatures and pressures.</p> <p>3 - Serious- Materials that in themselves are capable of detonation or explosive decomposition or reaction but require a strong initiating source or which must be heated under confinement before initiation or which react explosively with water.</p> <p>2 - Moderate- Materials that readily undergo violent chemical change at elevated temperatures and pressures or which react violently with water or which may form explosive mixtures with water.</p> <p>1 - Slight- Materials that in themselves are normally stable, but which can become unstable at elevated temperatures and pressures.</p> <p>0 - Minimal- Materials that in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.</p>

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16.2 Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with the International Organization for Standardization.

16.4 Disclaimer:

KIMLEIGH CHEMICALS SA (Pty) Ltd provides the information contained herein in good faith but does not assume any liability whatsoever for its accuracy or completeness. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.