

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 and ISO 11014-1

1. Product and Company identification

Brand name: AQUACARE®

Product name: Pure Pool®

Use of Product: Swimming Pool Water Treatment Solution

Company: MAC cc
190 Hampton Court Drive, Chartwell Randburg, 2055,
South Africa.

Emergency Telephone No: Phone +27 (0)86 1701 700

2. Hazards Identification

Hazards description:

GHS Classification according to Regulation (EC) No 1272/2008 [CLP]:

Section	Hazard Class	Category	Hazard Statement Code	Hazard Statement
B1	MILD IRRITANT	3	H316 / H320	Irritating to eyes & skin

EC Classification according to Directive 1999/45/EC:

Classification	Hazards characteristics
R R36/38	Irritating to eyes & skin

3. Composition / Information on Ingredients

Composition of Pure Pool a complex aqueous ionic solution containing:

Name	CAS No.	EC No.	Content
Copper nitrate	3251-23-8	439-590-3	<4%
Zinc nitrate	7779-88-6	231-943-8	<2%
Aluminium	1327-41-9	215-477-2	<1%
Silver	7761-88-8	231-853-9	<1%
Water	7732-18-5	231-791-2	89%
Impurities	-	-	<3%

4. First-aid measures

- After inhalation:** fresh air.
- After skin contact:** wash off with plenty of water. Remove contaminated clothing.
- After eye contact:** rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.
- After swallowing:** immediately make victim drink plenty of water. Consult doctor in the event of any complaints. (Never give anything by mouth to an unconscious person).

5. Fire-fighting measures

- Suitable extinguishing media:** *N/A* (The product is non-flammable and non-explosive)
- Special risks:** *None.*
- Special protective equipment for fire fighting:**
None.
- Other information:** None.

6. Accidental release measures

- Person-related precautionary measures:**
Avoid substance contact. Ensure supply of fresh air and apply water.
- Environmental-protection measures:**
None.
- Procedures for cleaning / absorption:**
Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

7. Handling and storage

- Handling:** No further requirements.
- Storage:** Store tightly closed in a ventilated place. At +5°C to +40°C.
- Suitable Packaging:** HDPE/PVC containers

8. Exposure controls/personal protection

- Engineering measures:** Not applicable
- Hygiene measures:** Ensure adequate ventilation, especially in confined spaces.

Personal protective equipment:	Protective clothing should be gloves and face mask and kept out of reach of children.
Respiratory protection:	None.
Eye protection:	Face shield.
Hand protection:	PVC or other plastic material gloves.
Industrial hygiene:	Change contaminated clothing. Application of skin- protective barrier cream recommended. Rinse hands after working with water.

9. Physical and chemical properties

Physical state:	Liquid
Colour:	Translucent aquamarine / green.
Odour:	Faintly sour.
Boiling point:	+100°C + @ 1atm. pressure
Melting point:	Not applicable
Solubility in water:	Soluble in water
Relative density:	1,4 g/ml at 25°C
Flash-point:	Not applicable

10. Stability and reactivity

Stability:	Stable under all conditions
Conditions to avoid:	None

Materials compatible: Citric acid, benzoic acid, boric acid, borax, wetting agents, ethylenediaminetetra acetic add, glycerine, hydroxy acetic acid, phosphoric acid, pine oil, sodiumbicarbonate, sodiumcarbncate, sodiualuminate, sodiumnitrite, sodiumpyrophosphate sour, sodiummetaboratet risodiumphosphate, stannic chloride, urea.

Materials partly compatible: sadiumtripolyphcsphate, vet asodiumpyrophosphate, sodiummetasilicate, sodiumgluconate, sodiumchloridE barium chic ride.

Materials incompatible: soaps, anionic detergents, tetrasodiumphosphate, am moniumchlori de, cadmium chloride, disodiurn. phosphate, ferrous chloride, lead chloride, magnesium chloride, manganous chloride, sodigm-monophosphate potassium chloride, tetrasothummetapyraphosphate,

strontium chloride, titanium chloride, zinc chloride,
zinc sulphate.

Hazardous decomposition products: None.

Further information: None.

11. Toxicological information

No quantitative data is available for the finished product as the individual components do not form a complex compound and are soluble and individually mobile both in the concentrate and in the dilutions as recommended for intended use.

The LD50/LC50 values mentioned refer to concentrates of the individual raw materials. (IUCLID)

LD50/LC50:

<i>Nitric Acid:</i>	Oral, rat	: LD50 = >90 mL/kg.
	Inhalation, rat	: LC50 = 67 ppm(NO ₂)/4H.
<i>Hydrogen Chloride:</i>	Oral, rat	: LD50 = 7.8 mL/kg.
	Inhalation, rat	: LC50 = 3124 ppm /1H.
<i>Copper:</i>	Oral, Mouse	: LD50 = 0.7 mg/kg.
	Inhalation,	: N/A
<i>Zinc:</i>	Oral,	: N/A
	Inhalation,	: N/A
<i>Silver:</i>	Oral, rat	: LD50 = >2000 mg/kg.
	Inhalation,	: N/A
<i>Aluminium:</i>	Oral,	: N/A
	Inhalation,	: N/A

Toxic effects: Material is safe for ingestion in dilutions as recommended for intended use.
Irritant to Mouth, oesophagus and intestinal tract in concentrate form.
After swallowing of large amounts: Caustic effects on mouth and throat and no danger of perforation of oesophagus and stomach.

Skin irritation: Irritant in concentrated form.

Eye irritation: Irritant in concentrated form.

12. Ecological information

No quantitative data is available for the finished product as the individual components do not form a complex compound and are soluble and individually mobile both in the concentrate and in the dilutions as recommended for intended use.

When dosing always adhere to environmental limits for the individual components in the country of intended use.

Mobility:	Soluble in water
Persistence/degradability:	The resulting solution is readily degradable
Bio accumulative potential:	Material constitutes ecological good in dilutions as recommended for intended use. No Bioaccumulation has been observed.
Further ecological data:	The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Not hazard for drinking water. Fish: LC50 > 500 mg/l.

13. Disposal considerations

Methods of disposal:	Disposal of as special waste in compliance with local and national regulations.
Contaminated packaging:	Empty containers should be taken for recycling, recovery or waste disposal in compliance with local and national regulations.

14. Transport information

Land transport (ADR/RID):	n.o.s. non-corrosive liquid, non-oxidizing, inorganic, (mixture) No special regulations apply
Sea transport (IMDG):	n.o.s. non-corrosive liquid, non-oxidizing, inorganic, (mixture) No special regulations apply
Air transport (ICAO-IATA/DGR):	n.o.s. non-corrosive liquid, non-oxidizing, inorganic, (mixture) No special regulations apply

15. Regulatory information

Symbol(s):

R – PHRASE(S)
R36/38

Irritating to eyes & skin

S – PHRASE(S)
S1/2
S24/25
S26

Keep locked up and out of the reach of children
Avoid contact with skin and eyes
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if necessary

S35	This material and its container must be disposed of in a safe way
S38	Wear suitable protective clothing.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

The information in this safety data sheet is correct to the best of our knowledge, information and belief, at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release of bulk concentrate, and is not to be considered a warranty or quality specification. There are relaxations from the regulations when goods are packed in receptacles below the Limited Quantity limits and also when the load is less than Exempted Load limits. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

Data sources:

- ECDIN (Environmental Chem. Data and Information Network)
- IUCLID (International Uniform Chemical Information Database)
- NIOSH - Registry of Toxic Effects of Chemical Substances
- BGIA – Institute for Occupational Safety and Health
- GESTIS International limit values
- Roth - Wassergefährdende Stoffe
- Verschuieren - Handbook of Environmental Data on Organic Chemicals
- Merian - Metals and their compounds in the environment.
- Merck Index

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