

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: Bioquat

Product Form: Mixture

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

Use of the substance or mixture: Detergent disinfectant for professional and industrial use.

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Enviro Det (Pty) Ltd

Stand No M36

BA Gamotlharo Tribal Road

Northern Cape

8460

Contact Details

(+27) 53 712 1188

1.4 Emergency Telephone Number

For medical or environmental emergency only:

(+27) 53 712 1188

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Skin Irrit. 2 H315

Eye Dam. 1 H318

Aquatic Acute 1 H401

2.2 Label Elements

Hazard Pictogram



Signal Word: Warning

Hazard Statements

H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.
H290 - May be corrosive to metals.

Precautionary Statements

P264 - Wash exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
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 poison centre or doctor/physician
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to comply with local regulations

2.3 Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

Substance Name	Cas No.	% Weight	Classification
Benzalkonium Chloride	7681-52-9	15 - 20	Skin Corr. Irrit. 1C H314 Eye Dam. 1; H318

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures general:

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation:

Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact:

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician.

First-aid measures after ingestion:

Rinse mouth with water. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus and suitable protective clothing including gloves and eye or face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Wear eye/face protection

6.2 Environmental precautions

Do not allow to enter drainage system, surface, or ground water. Dilute with plenty of water. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures: Wash exposed skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well-ventilated place away from incompatible materials. Keep container closed when not in use.

Incompatible products: Strong reducing agents, combustible materials, aluminium metals. Ammonia. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by manufacturer.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Not applicable.

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information: Do not eat, drink, or smoke during use.

Safety glasses. Gloves. Protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	: Liquid
Colour	: Yellow
Odour	: None
pH	: 9 - 11
Melting Point	: Not determined
Boiling Point	: Not determined
Flash Point	: Not determined
Ignition Temperature	: Not determined
Explosive Properties	: Not determined
Density	: 1.00 -1.03 g/ml
Solubility in water	: Soluble in water

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with acids.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

	Benzalkonium Chloride
Toxicity Data	Oral LD50 795 mg/kg (rat) Dermal ATE mix > 5000 mg/kg (calculated) Dermal OECD 404 (skin) corrosive (rabbit) (OECD 404) Sensitisation OECD 406(MKA) not sensitising (Guinea pig) (OECD 406)
Eye	Causes serious eye damage.
Skin	Causes skin irritation.
Ingestion	Harmful if swallowed. Adverse symptoms may include stomach pains. -
Inhaled	Respiratory/skin sensitisation:

SECTION 12: Ecological information

	Benzalkonium Chloride
Ecotoxicity	EC10/72 h 0.0025mg/l (Selenastrum capricornutum) OECD 201) EC50 /48 h 0.016 mg/l (Daphnia) EC50 /72 h 0.025 mg/l (rainbow trout) (OECD 203) NOEC /21 d 0.025 mg/l (daphnia) OECD 211)
Persistence/Degradability	This product is readily biodegradable.
Mobility	No data available
Environmental Fate	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Bioaccumulation Potential	No data available
Environmental Impact	No data available
Biodegradability	Readily biodegradable

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable product(s) via a licensed waste disposal contractor and in accordance with local, regional and or national regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Care should be taken when handling emptied containers that have not been cleaned or rinsed out

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: 3267

14.2 UN proper shipping name: Corrosive Liquid, basic, nos

14.3 Transport hazard class(es): 8

14.4 Packing group: III

14.5 Environmental hazards: Yes

14.6 Special precautions for user: None known

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

SECTION 15: Regulatory information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS)

Hazard Pictograms



Signal word: Warning

Hazard-determining component of labelling

Benzalkonium Chloride

Hazard Statements

Causes skin irritation.

Causes serious eye damage

Precautionary Statements

Wash exposed skin thoroughly after handling

Avoid release to the environment

Wear protective gloves, protective clothing, eye protection, face protection

IF ON SKIN: Wash with plenty of soap and water

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a poison centre or doctor/physician

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

Dispose of contents/container to comply with local regulations

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture.

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

End of Safety Data Sheet