



1 Identification

GHS Product Identifier

AQT 843

Other means of identification

CAS:	Not listed in registry
EC:	Not listed in registry
RTECS:	Not listed in registry
ICSC:	Not listed in registry
Chemical Family:	Mixture
Synonyms:	NT843
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Chemical Formula:	Mixture

Recommended use of the chemical and restriction on use

AQT 843 is a cost effective liquid polyaluminiumchloride/polyamine blend suitable for use in most applications, including potable water production.

AQT 843 is ideally suited for application as: Municipal drinking water production & Industrial applications where coagulants are needed with flocculants. Not for food, drug or household use.

Supplier's details

AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

4A Spanner Road	PO Box 357
Spartan, Kempton Park	Isando
Gauteng, South Africa	Gauteng, South Africa
1619	1600
www.aquatradesa.co.za	Tel: +27 11 394 0752
sheq@aquatradesa.co.za	Tel: +27 87 654 3326 (SDS Enquiries)

Emergency phone number

E le Sar: +27 82 921 0643 (Available Mon - Fri, GMT 5:00 to 20:00)
Spilltech: +27 861 000 366 (Available 24/7)

2 Hazard(s) identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Toxicity - Oral, (Category 4), H302
Skin Corrosion/Irritation (Category 2), H315
Serious Eye Damage/Eye Irritation (Category 2), H319
Acute Aquatic Toxicity, (Category 1), H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS label elements

Warning



Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

Very toxic to aquatic life

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

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.

Specific treatment (see P330 on this label).

Rinse mouth.

If skin irritation occurs: Get medical advice/attention.

IF eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Dispose of contents and container in accordance with local, regional, national, international regulations.

Other hazards which do not result in classification

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.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Confidential Business Information			0	Information available to emergency responders

4 First-aid measures

Description of necessary first-aid measures

Eye contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Skin contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Ingestion:

Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.

General advice:

If you feel unwell, seek medical advice (show the label where possible).

Most important symptoms/effects, acute and delayed

Irritation of eyes and skin when in contact. No known delayed effects and or symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the chemical

Non-combustible material. In case of fire the product develops oxides NO_x, NH₃, CO_x.

Special protective actions for fire-fighters

Decomposes on heating emitting toxic fumes, including those of aluminium oxide, and hydrogen chloride. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Environmental precautions

Prevent further leakage or spillage if safe to do so. **DO NOT** allow product to enter municipal drains or open water sources.

Methods and materials for containment and cleaning up

Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation. Cover with inert material, sand or soil. Collect and seal in properly labelled containers or drums for disposal. Rinse area with water to chemical sewer system.

7 Handling and storage

Precautions for safe handling

Handle and open container with care. Minimize mist generation. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place. Protect from moisture. Store in plastic (PE, PP, PVC) or fibreglass containers/vessels. Corrosive to mild and stainless steels. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

8 Exposure controls/personal protection

Control parameters

Workplace Exposure Standards:

No value assigned for this specific material.

Standard(s) for constituent(s):

Aluminium, as Al: Soluble salts WES-TWA 5 mg/m³

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace

Exposure Standards. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Recommendations below is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.



Eye/face protection:

Safety glasses with side shields or safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Contact lenses should not be worn; they may contribute to severe eye injury.

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

Body Protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Use an EN 149:2001 approved moulded respirator (FFP2 NR).

9 Physical and chemical properties

Physical and chemical properties

Appearance (physical state, colour etc):	Clear yellow liquid
Odour:	Odourless
Odour threshold:	No data available
pH:	>2 to <5
Melting point/freezing point:	No data available

Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	Not flammable or explosive
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.18 - 1.20
Solubility(ies):	Miscible in all proportions
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10 Stability and reactivity

Reactivity

Reacts with chlorates. Reacts with chlorites.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

May be corrosive to metals.

Conditions to avoid

Avoid overheating and keep away from ignition sources.

Incompatible materials

Incompatible with chlorates and chlorites.

Hazardous decomposition products

Hydrogen chloride.

11 Toxicological information

Toxicological (health) effects

Ingestion:

Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain.

Eye contact:

Contact with eyes will result in irritation, tearing and redness.

Skin contact:

Contact with skin will result in irritation.

Inhalation:

Material may be irritant to the mucous membranes of the respiratory tract (airways).

Information on the likely routes of exposure

Skin and eye contact - YES (Vapour/Mist)

Inhalation - YES (Mist)

Ingestion - YES (Mist: Unhygienic practices)

Symptoms related to the physical, chemical and toxicological characteristics

Nausea, vomiting, diarrhoea, and abdominal pain. Irritant to eye, skin and respiratory tract.

Delayed and immediate effects and also chronic effects from short and long term exposure

Chronic effects:

No information available for the product.

Aspiration hazard:

No information available.

Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity:	Category:
LD ₅₀ Oral	972.14 mg/kg
LD ₅₀ Dermal	>5 000 mg/kg
LC ₅₀ Inhalation	No data

Interactive effects

None known.

Where specific chemical data are not available

No data available.

Mixtures

No data available.

Mixture versus ingredient information

No data available.

Other information

No data available.

12 Ecological information

Toxicity

Acute toxicity:	Category:
EC ₅₀ Fish	No data
EC ₅₀ Daphnia	0.88 mg/l
EC ₅₀ Algae	No data
EC ₅₀ Micro-organism	No data

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

None known.

13 Disposal considerations

Disposal methods

Waste disposal recommendations:

Dispose of waste and container in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or

damage to people or animals. Recycle/reuse. Remove for physico-chemical/biological treatment. **DO NOT** discharge into drains or the environment.

Ecology - waste materials:

DO NOT release to the environment.

Empty Container:

Avoid reuse of container. Rinse/decontaminate thoroughly before reuse or discarding in chemical waste or return to supplier.

14 Transport information

UN Number

UN3082 Class 9 PG III Exempt 1000 F: 1

UN Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)

9



Packing group, if applicable

III

Environmental hazards

Acute Aquatic Toxicity, Category 1. **DO NOT** release to the environment, open water sources or municipal drains.

Special precautions for user

DO NOT load with Class 1.

Can be loaded with all other classes.

Goods of different classes **must** be segregated by an air space of at least 100mm or by an approved segregation device or non-dangerous goods.

P, B, L and O provisions as per SANS 10231:2006

B13 - Carriage in bulk is permitted in specially equipped vehicles or containers in accordance with standards specified by the competent authority of the country of origin.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

SA NATIONAL LEGISLATION

Hazardous Substances Act 15 of 1973 and Regulations.

Occupational Health and Safety Act 85 of 1993 and Regulations.

SA NATIONAL STANDARDS

SANS 10228 : 2006 : Identification and Classification of Dangerous Goods for Transport by Road and Rail.

SANS 10231 : 2018 : Transport of dangerous goods - Operational requirements for road vehicles.

SANS 10234 : 2008 : Globally Harmonized System of classification and labelling of chemicals (GHS).

SANS 11014 : 2010 : Safety Data Sheets for chemical Products.

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of

the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU

Listed in Regulation: Not applicable

Chemical safety assessment:

Not assessed.

16 Other information

Other information

Full text of H-Statements referred to under section 2.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

Precautionary statements

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see P330 on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents and container in accordance with local, regional, national, international regulations.

Labelling REGULATION (EC) No 1272/2008

Signal Word

Warning

Pictograms

GHS07 Health Hazard

GHS09 Environmental Hazard

Training advice

Provide adequate information, instruction and training for operators.

Compiled by Aquatrade Water Treatment Chemicals (Pty) Ltd, R. van Rooyen, SHEQ and E. Le Sar, Director

MANUFACTURER/SUPPLIER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any national or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.

Revision History

Revision:	Date:	Change:
1.0	2019/03/01	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
