

## 1 Identification

### GHS Product Identifier

**AQT 867**

### Other means of identification

CAS:	Mixture not listed in registry
EC:	Mixture not listed in registry
RTECS:	Mixture not listed in registry
ICSC:	Mixture
Chemical Family:	Mixture
Synonyms:	BSW867
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Chemical Formula:	Mixture

### Recommended use of the chemical and restriction on use

Coagulant/Flocculant blend for industrial water treatment. Not for food, drug or household use.

### Supplier's details

## AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

4A Spanner Road  
Spartan, Kempton Park  
Gauteng, South Africa  
1619  
[www.aquatradesa.co.za](http://www.aquatradesa.co.za)  
[sheq@aquatradesa.co.za](mailto:sheq@aquatradesa.co.za)

PO Box 357  
Isando  
Gauteng, South Africa  
1600  
Tel: +27 11 394 0752  
Tel: +27 87 654 3326 (SDS Enquiries)

### Emergency phone number

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

## 2 Hazard(s) identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Skin Corrosion /Skin 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



Causes skin irritation



Causes serious eye irritation

Very toxic to aquatic life

Wash 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.

Specific treatment (see P313 on this label).

If skin irritation occurs: 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

#### Eyes:

Immediately flush with cold water for at least 15 minutes. Seek medical attention.

#### Skin:

Wash skin with plenty of water. If irritation/rash occurs, get medical attention.

#### Ingestion:

Get medical attention. Treat symptomatically. If vomiting occurs, keep head lower than hips.

#### Inhalation:

Remove patient to fresh air and seek medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Acute:

Causes skin and eye irritation.

#### Delayed:

No data available.

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

Treatment should be directed at administering to symptoms (if they occur) and providing supportive therapy.

## 5 Fire-fighting measures

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use dry chemical, Carbon dioxide, foam or water spray - **DO NOT** use water jets.

### Specific hazards arising from the chemical

Mixture non-combustible and does not burn. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products:

Burning produces oxides of Carbon (CO<sub>2</sub>, CO) and Nitrogen (NO).

### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as per section 8. Ensure adequate ventilation. **Avoid** dust formation. **Avoid** contact with eyes. Keep people away from and upwind of spill/leak.

### Environmental precautions

**DO NOT** allow product to enter municipal drains or open water sources. Notify emergency services if product has been released into drains and open water sources.

### Methods and materials for containment and cleaning up

Safely stop source of spill. Restrict non-essential personnel from area. Keep spills and clean-up residuals out of open bodies of water.

#### **Small spill:**

Absorb with inert material and place in waste receptacle. Rinse contaminated area.

#### **Large spill:**

Absorb with inert material and place in waste receptacle. Rinse contaminated area to drain system.

## 7 Handling and storage

### Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment. **Avoid** spraying the product. **Avoid** contact with skin and eyes. **DO NOT** breathe spray/mist.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep in a dry, cool and well-ventilated place away from heat and strong oxidising agents.

## 8 Exposure controls/personal protection

### Control parameters

#### **Occupational exposure limits:**

Not listed

#### **Additional exposure limits under the conditions of use:**

Not available.

#### **DNEL/DMEL and PNEC-Values:**

Not available.

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### 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 shield 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:**

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

## 9 Physical and chemical properties

### Physical and chemical properties

Appearance (physical state, colour etc):	Yellow liquid
Odour:	No test data available
Odour threshold:	No test data available
pH:	2 - 5
Melting/Freezing Point:	No test data available
Initial boiling point and boiling range:	No test data available
Flash point:	No test data available
Evaporation rate:	No test data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	Not flammable or explosive
Vapour pressure:	No test data available
Vapour density:	No test data available
Relative density:	1.18 - 1.22
Solubility(ies):	No test data available
Partition coefficient: n-octanol/water:	No test data available
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
Viscosity:	No test data available

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

## 10 Stability and reactivity

### Reactivity

None known, based on information available.

### Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

### Possibility of hazardous reactions

#### **Hazardous Polymerisation:**

Product won't undergo hazardous polymerisation.

#### **Hazardous Combustion Products:**

Sulfur oxides. Burning produces obnoxious and toxic fumes.

### Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

Incompatible with strong oxidising and reducing agents. **Avoid** contact with all other chemicals. Corrosive to copper, mild steel, zinc and aluminium.

### Hazardous decomposition products

Decomposes on heating, emitting toxic fumes including: Oxides of Carbon(CO & CO<sub>2</sub>) and Nitrogen (NO).

## 11 Toxicological information

### Toxicological (health) effects

#### **Eyes:**

This product cause serious damage to eyes.

#### **Oral:**

The oral LD<sub>50</sub> is >5 000 mg/kg.

#### **Skin:**

The dermal LD<sub>50</sub> is >5 000 mg/kg. The primary skin irritation index is unknown but the product is considered corrosive to skin.

#### **Carcinogenicity:**

The constituents of this product are not listed as carcinogens by IARC, NTP or OSHA.

### Information on the likely routes of exposure

Skin and eye contact - YES (Vapours/Mist)

Inhalation - YES (Vapours/Mist)

Ingestion - YES (Unhygienic practices)

### Symptoms related to the physical, chemical and toxicological characteristics

Refer "Toxicological (health) effects".

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

Refer "Toxicological (health) effects".

### Numerical measures of toxicity (such as acute toxicity estimates)

<b>Acute toxicity:</b>		<b>Category:</b>
LD <sub>50</sub> Oral	> 5 000 mg/kg	Not classifiable
LD <sub>50</sub> Dermal	> 5 000 mg/kg	Not classifiable
LC <sub>50</sub> Inhalation	No data	

### Interactive effects

None known.

### Where specific chemical data are not available

No additional data available.

### Mixtures

No additional data available.

### Mixture versus ingredient information

No additional data available.

### Other information

None.

## 12 Ecological information

### Toxicity

<i>Acute toxicity:</i>		<i>Category:</i>
EC <sub>50</sub> Fish	> 0.4 mg/l	1
EC <sub>50</sub> Daphnia	> 22 mg/l	2
EC <sub>50</sub> Algae	No data	
EC <sub>50</sub> Micro-organism	No data	

### Persistence and degradability

At least partially biodegradable with no known toxic degradation products.

### Bioaccumulative potential

No information available.

### Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### Other adverse effects

None known.

## 13 Disposal considerations

### Disposal methods

#### **Waste disposal recommendations:**

At the time of review, criteria for land treatment or burial (sanitary landfill) disposal practices are subject to significant revision. Prior to implementing land disposal of waste residue (including waste sludge), consult with environmental regulatory agencies for guidance on acceptable disposal practices.

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:**

**DO NOT** reuse container. Rinse/Decontaminate and return to supplier or destroy thoroughly before discarding in waste.

## 14 Transport information

### UN Number

UN3082 Class 9 PG III EXEMPT 1 000 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 in the environment.

### Special precautions for user

**DO NOT** load with Classes 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

#### L13

If any substance has leaked and spilt in a vehicle or container, the vehicle or container may not be re-used until after it has been thoroughly cleaned and, if necessary, disinfected or decontaminated. Any other goods and articles carried in the same vehicle or container shall be examined for possible contamination.

### 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.

**Other information****Full text of H-Statements referred to under section 2****Hazard statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

**Precautionary statements**

P264	Wash 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.
P321	Specific treatment (see P313 on this label).
P332+P313	If skin irritation occurs: 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	Exclamation Mark
GHS09	Environment 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	2019/02/18	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
2.0	2019/02/18	Identification: See J