



## 1 Identification

### GHS Product Identifier

### AQT 912

### Other means of identification

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

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

**AQT 912** is a phosphonate/polymer/surfactant/biocide blend designed to reduce corrosion, scale formation and fouling in cooling water systems. Industrial Water Treatment. Not for food, drug or household use.

### Supplier's details

## AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

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### 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, Inhalation (Category 4 (Vapour/Mist)), H333  
Skin Corrosion/Irritation, (Category 1), H314  
Serious Eye Damage/Irritation, (Category 1), H318  
Acute Aquatic Toxicity(Category 1), H400

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

### GHS label elements

Danger



Causes severe skin burns and eye damage

Causes serious eye damage

May be harmful if inhaled

Very toxic to aquatic life

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Avoid release to the environment.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

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 CENTER or doctor/physician.

Specific treatment (see P351+P352 on this label).

Store locked up.

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 on Tel: +27 82 921 0643

### 4 First-aid measures

#### Description of necessary first-aid measures

##### Inhalation:

Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, call a physician.

##### Skin contact:

IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash off with soap and water. Immediate medical attention is required. Wash contaminated clothing before reuse. **DO NOT** take clothing home to be laundered. Discard contaminated shoes, belts, and other articles made of leather.

##### Eye contact:

Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

##### Ingestion:

Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. **Never** give anything by mouth to an unconscious person.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

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

### 5 Fire-fighting measures

### **Suitable extinguishing media**

Water spray jet, CO<sub>2</sub>, Foam.

### **Unsuitable extinguishing media:**

No data available.

### **Specific hazards arising from the chemical**

#### **Hazardous combustion products:**

CO<sub>2</sub>, CO, and PO<sub>x</sub>.

#### **Unusual Fire and Explosion Hazards:**

Combustion generates toxic fumes of the following: Hydrogen chloride; Nitrogen oxides (NO<sub>x</sub>); sulfur oxides.

#### **Special protective actions for fire-fighters**

Cool containers/tanks with water spray. Minimize exposure. Do not breathe fumes. Contain run-off.

#### **Special protective equipment for firefighters:**

Wear self-contained breathing apparatus and protective suit.

## **6 Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Wear a CEN approved (or equivalent) respirator (with organic vapor/acid gas cartridge and a dust/mist filter) during spill clean-ups and deactivation of this material. If exposed to material during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water.

See SECTION 4, First Aid Measures, for further information.

### **Environmental precautions**

**DO NOT** allow material to contaminate ground water system. Prevent product from entering drains.

### **Methods and materials for containment and cleaning up**

WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water.

Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). **DO NOT** add deactivation solution to the waste pail to deactivate the adsorbed material.

See Section 13, "Disposal Considerations", for information regarding the disposal of contained materials.

## **7 Handling and storage**

### **Precautions for safe handling**

This material is a severe irritant. For personal protection see section 8. **DO NOT** handle material near food, feed or drinking water.

### **Conditions for safe storage, including any incompatibilities**

#### **Technical measures:**

Comply with applicable regulations.

#### **Storage conditions:**

Keep only in the original container in a cool, well ventilated place away from heat and strong oxidising agents. Keep container closed when not in use.

#### **Incompatible products:**

Strong oxidising agents.

**Incompatible materials:**

Sources of ignition. Direct sunlight.

**Storage temperature:**

> 15 °C

**Heat-ignition:**

KEEP SUBSTANCE AWAY FROM: heat sources.

**Prohibitions on mixed storage:**

KEEP SUBSTANCE AWAY FROM: combustible materials. strong oxidising agents and metals.

**Storage area:**

Store in a dry area. Keep container in a well-ventilated place. Keep locked up. Protect against frost. Provide for a tub to collect spills. Unauthorized persons are not admitted. Meet the legal requirements.

**Special rules on packaging:**

SPECIAL REQUIREMENTS: Dry, clean and correctly labelled meeting the legal requirements. Secure fragile packagings in solid containers.

**Packaging materials:**

SUITABLE MATERIAL: Stainless steel, nickel, polyethylene, polypropylene, glass and stoneware/porcelain. MATERIAL TO AVOID: Mild steel unless suitably lined.

## 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.

**Appropriate engineering controls**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**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 as 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:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **9 Physical and chemical properties**

### **Physical and chemical properties**

Appearance (physical state, colour etc):	Clear colourless liquid
Odour:	No recognisable odour
Odour threshold:	No test data available
pH:	3.5 - 4.0
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 @20°C:	1.03 - 1.05
Solubility(ies):	Miscible in all proportions
Partition coefficient: n-octanol/water:	No test data available
Auto-ignition temperature:	No test data available
Decomposition temperature:	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**

No data available.

### **Chemical stability**

Stable under normal use, storage and transport conditions.

### **Possibility of hazardous reactions**

Product will not undergo polymerization. No hazardous reactions known.

### **Conditions to avoid**

High temperature. Poor ventilation.

### **Incompatible materials**

**Avoid** contact with the following: Oxidizing agents, Amines, Reducing agents and Mercaptans.

### **Hazardous decomposition products**

CO<sub>2</sub>, CO, and PO<sub>x</sub>.

## **11 Toxicological information**

### **Toxicological (health) effects**

#### ***Skin corrosion/irritation:***

The primary skin irritation index is unknown but the product may irritate skin.

#### ***Serious eye damage/eye irritation:***

The product is considered as corrosive causing serious damage to eyes.

#### ***Sensitization:***

Product test data not available. The constituents of this product are not listed.

#### ***For respiratory sensitization:***

No relevant data found.

#### ***Specific Target Organ Systemic Toxicity (Single Exposure)***

Product test data not available.

#### ***Specific Target Organ Systemic Toxicity (Repeated Exposure)***

Product test data not available.

#### ***Carcinogenicity***

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

#### ***Teratogenicity***

Product test data not available. The constituents of this product are not listed.

#### ***Reproductive toxicity***

Product test data not available. The constituents of this product are not listed.

#### ***Mutagenicity***

Product test data not available. The constituents of this product are not listed.

#### ***Aspiration Hazard***

Product test data not available. The constituents of this product are not listed.

### **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**

Skin irritant. Serious eye damage.

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

For additional information regarding acute and chronic effects refer section "Toxicological (health) effects".

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

<b>Acute toxicity:</b>		<b>Category:</b>
LD <sub>50</sub> Oral Rat	>5 000 mg/kg	2
LD <sub>50</sub> Dermal Rabbit	>5 000 mg/kg	3
LC <sub>50</sub> Inhalation Vapour	10.5 mg/kg	4

### Interactive effects

No test data available.

### Where specific chemical data are not available

No additional data.

### Mixtures

No additional data.

### Mixture versus ingredient information

No additional data.

### Other information

None.

## 12 Ecological information

### Toxicity

<b>Acute toxicity:</b>		<b>Category:</b>
EC <sub>50</sub> Fish	6.28 mg/l	2
EC <sub>50</sub> Daphnia	0.1 mg/l	1
EC <sub>50</sub> Algae	5.3 mg/l	2
EC <sub>50</sub> Micro-organism	No data	

### Persistence and degradability

At least partially biodegradable with no known toxic degradation products.

### Bioaccumulative potential

Not expected to be bioaccumulative.

### Mobility in soil

No test data available but mobility expected to be high.

### Other adverse effects

#### Results of PBT and vPvB assessment

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.

## 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:**

**DO NOT** reuse container. Rinse thoroughly before discarding in chemical waste or return to supplier.

## 14 Transport information

**UN Number**

**UN3082 Class9 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 **Exempt quantity: 1 000 Factor: 1**

**Environmental hazards**

Acute Aquatic Toxicity, (Category 1). **DO NOT** allow product to enter open water sources or municipal storm water drains.

**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 : 2006 : 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 & P - Statements referred to under section 2**

##### **Hazard statements**

H333	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

##### **Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
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 CENTER or doctor/physician.
P321	Specific treatment (see P351+P352 on this label).
P405	Store locked up.
P501	Dispose of contents and container in accordance with local, regional, national, international regulations.

#### **Labelling REGULATION (EC) No 1272/2008**

##### **Signal Word**

Danger

##### **Pictograms Hazard to Human**

GHS05	Corrosive Hazard
GHS09	Hazardous to the environment

##### **Pictogram Hazard during Transport**

Class 9	Environmental Toxic Substance
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##### **Acronyms:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
EC	Effective Concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
ICSC	International Chemical Safety Cards
LC	Lethal Concentration
LD	Lethal Dose
NFPA	National Fire Protection Agency
(USA) NIOSH	National Institute for Occupational Safety and Health
(USA) OSHA	Occupational Safety and Health Administration
(USA) PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances
TWA	Time-Weighted Average

**Training advice**

Provide adequate information, instruction and training for operators.

**Compiled by Aquatrade Water Treatment Chemicals (Pty) Ltd, R. van Rooyen, SHEQ Co-ordinator 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	2018/08/29	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
2.0	2019/03/13	Section 1, 7, 11, 12 & 14. Identification incorrect. Toxic values adjusted. New UN number.