

1 Identification

GHS Product Identifier

AQT 743

Other means of identification

CAS:	Mixture not listed in registry
RTECS:	Mixture not listed in registry
EINECS:	Mixture not listed in registry
ICSC:	Mixture
Chemical Family:	Mixture
Synonyms:	Mixture
Proper Shipping Name:	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
Chemical Formula:	Mixture

Recommended use of the chemical and restriction on use

Industrial Water Treatment. 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

admin@aquatradesa.co.za Tel: +27 11 394 0752

Emergency phone number

+27 82 446 3549 (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 3), H301

Acute toxicity, Inhalation (Category 3), H330

Skin corrosion (Category 1B), H314

Skin sensitisation (Category 1), H317

Eye Irritation (Category 2), H319

Acute aquatic toxicity (Category 2), H401

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

GHS label elements

Danger



Toxic if swallowed

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Causes serious eye irritation

Toxic if inhaled

Toxic to aquatic life

Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

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

Wear respiratory protection.

Other hazards which do not result in classification

No known hazards not classified.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
POLYETHYLENE GLYCOL	25322-68-3		55 - 65	Skin irritation, Category 2; Serious eye irritation, Category 2A
2,2-Dibromo-3-nitrilopropionamide	10222-01-2		15 - 25	Skin corrosion (Category 1B), Skin sensitisation (Category 1), Acute aquatic toxicity (Category 1)

4 First-aid measures

Description of necessary first-aid measures

Eyes:

Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.

Skin:

Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention immediately.

Ingestion:

If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.

Inhalation:

In case of mist inhalation or breathing fumes released from heated material, remove people to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms and effects are listed under "Toxicological Information".

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

Severe irritant. No specific antidote. Treat symptomatically and supportively.

5 Fire-fighting measures

Suitable extinguishing media

Carbon dioxide or water spray.

Specific hazards arising from the chemical

When heated to decomposition, may release poisonous and corrosive fumes of Br₂, HBr and NO_x.

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

Wear self-contained breathing apparatus in positive mode. Use proper personal protective equipment as indicated in section 8. Keep unprotected personnel away and downwind from spill.

Environmental precautions

Avoid access to streams, lakes or ponds.

Methods and materials for containment and cleaning up

Safely stop source of spill. Restrict non-essential personnel from area.

Small spill:

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

Large spill:

Absorb with inert material and sweep up, place in a suitable container and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Rinse contaminated area to drain system.

7 Handling and storage

Precautions for safe handling

Keep containers tightly closed. Avoid bodily contact.

Conditions for safe storage, including any incompatibilities

Store in a dry, well-ventilated and shade area. Keep away from heat sources, away from incompatible material.

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

Use local exhaust ventilation with a minimum capture velocity of 0.75 m/sec. (150 ft/min.) at the point of dust or mist evolution. Refer to SANS 10400-O and the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Protective measures:

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.



Eye/face protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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. This recommendation 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.

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 slightly hazy colourless to yellow liquid
Odour:	Slightly sweet
Odour threshold:	No test data available
pH:	1 - 8
Melting/Freezing Point:	No test data/< 0°C
Initial boiling point and boiling range:	> 100°C/No test data
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:	1.19 - 1.22
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 known reactivities.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

None known. Hazardous polymerisation will not occur.

Conditions to avoid

Exposure to light. Heating.

Incompatible materials

Oxidising agents, reducing agents and bases, acid chlorides, acid anhydrides.

Hazardous decomposition products

Gases of Br₂, HBr, No_x.

11 Toxicological information

Toxicological (health) effects

No data for mixture. Results on active toxic ingredient (**2,2-Dibromo-2-cyanoacetamide, CAS-No. 10222-01-2, EC-No. 233-539-7**)

Skin corrosion/irritation:

Skin - Rabbit

Result: Severe skin irritation

Serious eye damage/eye irritation:

Eyes - Rabbit

Result: Severe eye irritation

Respiratory or skin sensitisation:

Germ cell mutagenicity:

No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

No data available

Specific target organ toxicity - single exposure:

No data available

Specific target organ toxicity - repeated exposure:

No data available

Aspiration hazard:

No data available

Cough, Shortness of breath, Headache, Nausea, Vomiting

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

No known long term effects. Immediate effects refer to "Toxicological (health) effects".

Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity:		Category:
LD ₅₀ Oral Rat	800.9 mg/kg	3
LD ₅₀ Dermal	>5 000 mg/kg	Not classifiable
LC ₅₀ Inhalation	1.6 mg/kg	3

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

Acute toxicity:		Category:
EC ₅₀ Fish	90.95 mg/l	2
EC ₅₀ Daphnia	>100 mg/l	Not classifiable
EC ₅₀ Algae	>0.89 mg/l	1
EC ₅₀ Microorganism	No data	

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects:

Very toxic to aquatic life.

No additional data available.

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**

UN2927 Class: 6.1(8) PG: II Exempt: 5 F: 200

UN Proper Shipping Name

TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.

Transport hazard class(es)

6.1(8)

**Packing group, if applicable**

II

Environmental hazards

Acute Aquatic Toxicity Category 1. Do not allow product to enter the environment.

Special precautions for user

Not to be loaded with class 1, 2.3, 4.1, 4.2, 4.3, 5.1 and 5.2.

Can be loaded with class 2.1, 2.2, 6.1, 6.2 and 8B if kept at least 1 metre apart.

Do not transport Nitromethane (UN1261) with toxics (Class 6.1).

Do not load with foodstuffs or stockfeeds.

Cyanides must not be transported with acid.

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.

L28 Packages shall not be loaded together with packages known to contain foodstuffs, other articles of consumption or animal feeds.

O9 During the carriage of these substances, stops for service requirements shall be as far as possible from inhabited or frequented places. A longer stop near such places is permissible only with the consent of the local emergency services.

O19 The provisions in 5.3.4 concerning the supervision of vehicles shall apply when the total mass of these substances in the vehicle exceeds 5 000 kg.

5.3.4

A vehicle that carries dangerous goods shall be under constant supervision while stopped or parked if one or both of the following applies:

a) the dangerous goods carried have an exempt quantity of 10 kg or 10 L, or less; or

b) any one or more of special provisions O14 to O20 (inclusive) in C.5 applies.

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

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

Hazard statements

- H301 Toxic if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H401 Toxic to aquatic life.

Precautionary statements

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 Wear respiratory protection.

Labelling REGULATION (EC) No 1272/2008

Signal Word Danger

Pictograms

- GHS05 Corrosive
- GHS06 Skull & Crossbones
- GHS09 Fish & Tree

Training advice

Provide adequate information, instruction and training for operators.

Compiled by R. van Rooyen, SHEQ and E. Le Sar, COO

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	2018/06/04	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
2.0	2018/07/27	Changes section 1 and 14.6. Label correction. Special precautions
3.0	2020/03/02	Changed section 9. pH & appearance