PO Box 357
Isando
1600

4a Spanner Road
Spartan
Kempton Park

Email: admin@aquatradesa.co.za
Website: www.aquatradesa.ca.za
Tel: 011 394 8762 / Fax: 011 394 0752

1 Identification

GHS Product Identifier

AQT 780

Other means of identification

CAS:	Mixture not listed in registry
EINECS:	Mixture not listed in registry
RTECS:	Mixture not listed in registry
ICSC:	Mixture not listed in registry
Chemical Family:	Mixture
Synonyms:	RO-H-TREAT-16
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Chemical Formula:	Mixture

Recommended use of the chemical and restriction on use

AQT 780 is a specially formulated solution designed to remove biofouling and other organic fouling from polyamide membranes. Is has been formulated to give a pH of about 12 to the cleaning solution. 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
sheq@aquatradesa.co.za

PO Box 357
Isando
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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)

2 Hazard(s) identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Corrosive to Metals (Category 1), H290
Skin Corrosion/Irritation, (Category 1), H314
Serious Eye Damage/Irritation, (Category 1), H318

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

GHS label elements

Danger

May be corrosive to metals

Causes severe skin burns and eye damage

Causes serious eye damage

Keep only in original container.

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

Wash thoroughly after handling.

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.

Wash contaminated clothing before reuse.

Store locked up.

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

Other hazards which do not result in classification

No hazard known not classified.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Sulphonic Acid			1 - 10	Flam. Liq. 3 H226; Eye Dam. 1 H318; Skin Irrit. 2 H315; STOT SE 3 H335-H336, Acute Tox. 5 H303, Acute Tox. 5 H313, Acute Tox. 5 H333
Sodium Hydroxide	1310-73-2		1 - 10	Acute Tox. 4 (Dermal), H312; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 3, H402

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

Corrosive in case of skin and eye contact, ingestion and inhalation.

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

None known.

5 Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO_2, alcohol-resistant foam or water spray.

Specific hazards arising from the chemical

No data available.

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

All personnel involved in spill cleanup should follow good industrial hygiene practices and avoid skin and eye contact by wearing appropriate personal protective equipment. Refer section 8.

Environmental precautions

DO NOT let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Safely stop source of spill if safe to do so. 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 place in waste receptacle. Rinse contaminated area to drain system.

7 Handling and storage

Precautions for safe handling

Prevent contact with skin and eyes. **DO NOT** breathe gas/fumes/ vapor/spray. Keep away from incompatibles such as oxidizing agents, metals.

Conditions for safe storage, including any incompatibilities

Keep this product in tightly closed original container in cool area away from heat and strong oxidising agents. **DO NOT** store in mild steel containers 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

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value where established. Avoid spraying the material. Supply safety shower and eyewash in immediate vicinity of exposure area. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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:
Face shield and safety glasses 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: EN 374

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):	Milky white liquid
Odour:	Odourless
Odour threshold:	No test data available
pH (1%):	11.5 - 12.00
Melting/Freezing Point:	No test data available
Initial boiling point and boiling range:	No test data available
Flash point:	Do not flash
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:	1.01 - 1.03
Solubility(ies):	Miscible in water
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

Incompatible with copper, aluminum and oxidizing agents.

Chemical stability

The product is stable under normal storage and handling.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

High heat.

Incompatible materials

Copper, aluminum, and oxidizing agents. Non-corrosive in presence of glass.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sodium oxides.

11 Toxicological information

Toxicological (health) effects

Acute Toxicity: Not classified

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 corrosion/irritation:
Causes severe burns and eye damage (pH >11.5)

Serious eye damage/irritation:
Causes serious eye damage (pH >11.5)

Respiratory or skin sensitization:
Not classified

Germ cell mutagenicity:
Not classified

Carcinogenicity:
Not classified

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

Refer symptoms above.

Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity:		***Category:***
LD_{50} Oral Rat	>5 000 mg/kg	Not classifiable
LD_{50} Dermal	>5 000 mg/kg	Not classifiable
LC_{50} Inhalation	>200 mg/kg	Not classifiable

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

None.

12 Ecological information

Toxicity

Acute toxicity:		*Category:*
EC_{50} Fish	>100 mg/l	Not classifiable
EC_{50} Daphnia	>100 mg/l	Not classifiable
EC_{50} Algae	>100 mg/l	Not classifiable
EC_{50} Micro-organism	No data	

Persistence and degradability

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

Bioaccumulative potential

No test data available.

Mobility in soil

No test 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:
Avoid release to the environment.

Empty Container:
DO NOT reuse container. Rinse/Decontaminate thoroughly before discarding in trash or return to supplier.

14 Transport information

UN Number

UN3267 Class 8 PG III Exempt 200 F: 5

UN Proper Shipping Name

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

Transport hazard class(es)

8

Packing group, if applicable

III

Environmental hazards

None known.

Special precautions for user

DO NOT load with Class 1.
Keep aluminium gas cylinders apart from caustic bases.
May be loaded with Class 8A if kept at least 1 metre apart.
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
None

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 & P-Statements referred to under section 2
Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Precautionary statements

P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
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.
P363 Wash contaminated clothing before reuse.
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

GHS05 Corrosive Hazard

Training advice

Provide adequate information, instruction and training for operators.

Compiled by 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	2019/01/11	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council