



1 Identification

GHS Product Identifier

AQT 025

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
Chemical Family:	Mixture
Synonyms:	None
Proper Shipping Name:	Corrosive Liquid, 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

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www.aquatradesa.co.za

Tel: +27 11 394 0752

sheq@aquatradesa.co.za

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

Acute Toxicity - Dermal (Category 5), H313

Skin Corrosion/Irritation (Category 1), H314

Serious Eye Damage/Irritation (Category 1), H318

Acute Aquatic Toxicity (Category 3), H402

Chronic Aquatic Toxicity (category 3), H412

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

GHS label elements

Danger



May be harmful in contact with skin

Causes severe skin burns and eye damage

Causes serious eye damage

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

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

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
Sodium Hydroxide	1310-73-2	215-185-5	30 - 50	
Ethylenediaminetetraacetic Acid			30 - 50	
Sodium Laurel Ether Sulphate			1 - 10	

4 First-aid measures

Description of necessary first-aid measures

Eye:

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin:

Immediately flush the skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.

Inhalation:

For nasal irritation, headache, and/or nausea remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Get immediate medical attention.

Ingestion:

DO NOT induce vomiting unless directed by medical personnel. Drink 1 to 2 glasses of water. **Never** give anything by mouth to an unconscious person. Call a physician.

Most important symptoms/effects, acute and delayed

Eye:

Eye irritation.

Skin:

Itching or irritation of the skin.

Inhalation:

Nasal irritation, headache, and/or nauseousness.

Ingestion:

Nauseousness.

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

Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media

Use media appropriate to primary cause of fire. Use water to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

Specific hazards arising from the chemical

Unusual Fire and Explosion Hazards:

None known.

Combustion Products:

None known.

Special protective actions for fire-fighters

Use water spray to cool containers exposed to fire. Minimize exposure. **DO NOT** breathe fumes. Contain run-off. A respirator or NIOSH-approved positive pressure suit should be worn if conditions warrant.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Protective clothing including chemical splash goggles, Latex, nitrile, or butyl rubber full-length gloves, rubber apron made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of material. If this material comes into contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin with soap and water.

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

Environmental precautions

No environmental precautions.

Methods and materials for containment and cleaning up

Land Spill:

Wearing recommended protective clothing and equipment, dike spill with soil, sand, or compatible commercial absorbent. Remove remaining liquid with a pump, vacuum truck, or absorb liquid in sand or commercial absorbent. Place waste in approved containers for disposal. Dispose waste according to provincial, national and international regulations.

Water Spill:

Wear protective clothing and equipment. Stop flow. Dike contaminated water and remove for disposal and/or treatment. Notify proper authorities and all downstream users if possible. Dispose of Solid Waste according to provincial, national and international regulations.

7 Handling and storage

Precautions for safe handling

DO NOT get in eyes, on skin or on clothing. **DO NOT** breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good hygiene practices. Wash hands before eating, drinking or smoking. Remove contaminated clothing and clean before re-use.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cool, dry, well-ventilated area away from incompatibles.

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

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.



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).

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:

No respiratory protection required.

9 Physical and chemical properties

Physical and chemical properties

Appearance (physical state, colour etc):	Clear liquid
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Odour:	Odourless
Odour threshold:	No test data available
pH (2% Tap Water):	10.5 - 11.5
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:	1.21 - 1.24
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

Reacts in contact with strong oxidizing or reducing agents.

Chemical stability

Stable under normal storage conditions.

See Section 7 (Handling and Storage) for specific conditions.

Possibility of hazardous reactions

Not a fire or explosions hazard.

Conditions to avoid

No known avoidable conditions.

Incompatible materials

Incompatible with strong oxidizing or reducing agents.

Hazardous decomposition products

None known.

11 Toxicological information

Toxicological (health) effects

Eye and nasal irritation, headache, dizziness, nausea, vomiting, weakness, itching or burning of the skin.

Eye Contact:

May cause conjunctival irritation.

Skin Contact:

May cause irritation.

Inhalation:

May cause irritation.

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 section 11.1 Toxicological (health) effects.

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

Refer section 11.1 Toxicological (health) effects for immediate effects. No known chronic effects.

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	3 615.19 mg/kg	5
LC ₅₀ Inhalation	>5 000 mg/kg	Not classifiable

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:
LC ₅₀ Fish	87.14 mg/l	3
EC ₅₀ Daphnia	80.09 mg/l	3
EC ₅₀ Algae	>100 mg/l	Not classifiable
EC ₅₀ Micro-organism	>100 mg/l	Not classifiable

Persistence and degradability

No test data available.

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:

Avoid reusing empty container. Rinse thoroughly before discarding in chemical waste or return to supplier.

14 Transport information

UN Number

UN1760 Class 8 PG III Exempt 200 F: 5

UN Proper Shipping Name

CORROSIVE LIQUID, N.O.S.

Transport hazard class(es)

8



Packing group, if applicable

III

Environmental hazards

Product is classified as a Category 3 Aquatic Toxicant. Avoid discharge into open water sources or municipal sewer systems.

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

H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260+P264+P280	Do not breathe mist/vapours/spray. Wash thoroughly after handling. 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

Acronyms

CAS	Chemical Abstract Services
DMEL	Derived Mean Effect Level
DNEL	Derived No-Effect Level
EC	European Commission (Consist EINECS, ELINCS and NLP lists)
ICSC	International Chemical Safety Card
PNEC	Predicted No-Effect COncentration
RTECS	Registry of Toxic Effects of CHEmical Substances

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	2019/01/10	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council