



1 Identification

GHS Product Identifier

AQT 191

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:	IKUCHEM191
Proper Shipping Name:	Not regulated for transport
Chemical Formula:	Mixture

Recommended use of the chemical and restriction on use

AQT 191 is a non-ionic surfactant blend. 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	Tel: +27 11 394 0752
sheq@aquatradesa.co.za	Tel: +27 87 654 3326 (SDS Enquiries)

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 3), H331
Serious Eye Damage/Eye Irritation, (Category 1), H318
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



Causes serious eye damage

Toxic if inhaled

Toxic to aquatic life

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

Use only outdoors or in a well-ventilated area.

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

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 P340+P351 on this label).

Store in a well-ventilated place. Keep container tightly closed.

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

Chemical powder, water spray, fog, foam.

Unsuitable extinguishing media

DO NOT use direct water jet. Combustible when water driven off.

Specific hazards arising from the chemical

Hazardous combustion products

Oxides of carbon (CO, CO₂) and nitrogen (NO, NO₂).

Unusual Fire and Explosion Hazards

No known explosion hazard.

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. Isolate the area of the spill. Prevent flames and sparks. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations).

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

Keep in a well-ventilated place. **DO NOT** mix with other chemicals. Prevent contact with skin and eyes. Keep this product in original closed container in cool area away from heat. **DO NOT** expose to any sources of ignition. Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent, where fitted.

DO NOT store this material near food, feed or drinking water.

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all SDS and label warnings even after container is emptied.

SANS 10263-0 Warehousing

No provisions.

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

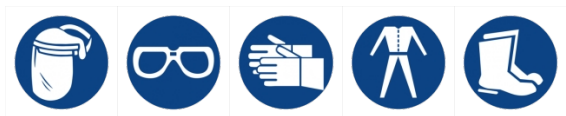
Not available.

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.



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: 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):	Colourless to light yellow liquid
Odour:	No recognisable odour
Odour threshold:	No test data available
pH:	2.5 - 5.0

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 explosive
Vapour pressure:	No test data available
Vapour density:	No test data available
Relative density:	1.00 - 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

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. Corrosive to mild steel.

Hazardous decomposition products

Nitrogen oxides (NO_x), Sulphur oxides and hydrogen chloride

11 Toxicological information

Toxicological (health) effects

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

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

Sensitization

Causes sensitisation.

For respiratory sensitization

No relevant data found.

Specific Target Organ Toxicity (Single Exposure)

Product test data not available.

Specific Target Organ Toxicity (Repeated Exposure)

Product test data not available.

Carcinogenicity

Product test data not available.

Teratogenicity

Product test data not available.

Reproductive toxicity

Product test data not available.

Mutagenicity

Product test data not available.

Aspiration Hazard

Product test data not available.

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

On contact:

Skin irritation. 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)

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	5.70 mg/kg	3

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**

Acute toxicity		Category
EC ₅₀ Fish	2.81 mg/l	2
EC ₅₀ Daphnia	1.12 mg/l	2
EC ₅₀ Algae	8.54 mg/l	2
EC ₅₀ Micro-organism	No data	

Persistence and degradability

No data available for mixture. Not expected to be persistent.

Bioaccumulative potential

No data available for mixture. Not expected to be bioaccumulative.

Mobility in soil

No data available for mixture.

Other adverse effects

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

NOT REGULATED FOR TRANSPORT

UN Proper Shipping Name

NOT REGULATED FOR TRANSPORT

Transport hazard class(es)

Not regulated for transport.

Packing group, if applicable

Not regulated for transport.

Environmental hazards

Acute Aquatic Toxicity, (Category 2). **Avoid** discharge into the environment.

Special precautions for user

None other except those in sections 4 to 8.

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

H318	Causes serious eye damage.
H331	Toxic if inhaled.
H401	Toxic to aquatic life.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 P340+P351 on this label).
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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
GHS06	Toxic Hazard

Pictogram Hazard during Transport

None

Acronyms

CAS	Chemical Abstract Service
DMEL	Derived Minimum Effect Level
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemicals
ICSC	International Chemical Safety Cards
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 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	2019/04/02	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council