	QUALITY MANAGEMENT SYSTEM	Document No.	FORM 41
	SHEQ	Revision	0
	AQT186	Revision date	2021/08/06

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GHS PRODUCT IDENTIFIER

AQT 186

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 not determined
SYNONYMS:	None
PROPER SHIPPING NAME:	NOT REGULATED FOR TRANSPORT
CHEMICAL FORMULA:	Mixture not determined
PRODUCT STOCK CODE/S:	AQT186A(25Kg); AQT186B(200Kg); AQT186C(1000Kg)

RECOMMENDED USE	RESTRICTIONS ON USE
AQT186 is a blend of non-ionic surfactant and polymer.	Not for end user consumption. Not for food, drug, medical or household use.

SUPPLIER'S DETAILS

AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

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Gauteng, South Africa

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SDS Enquiries only

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EMERGENCY PHONE NUMBER		
NAME	TEL	HOURS AVAILABLE
E. le Sar	+27 82 921 0643	Mon. – Fri. 05:00 – 20:00 GMT
Spilltech	+27 86 100 0366	24/7

SECTION 2 — HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Acute Toxicity, Inhalation (Category 5)

Serious Eye Damage/Irritation (Category 2)

Skin Corrosion/Irritation (Category 2)

Aquatic Toxicity - Acute (Category 2)

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

GHS LABEL ELEMENTS

GHS SIGNAL WORD

WARNING

GHS HAZARD CODES

May be harmful if inhaled.

Causes serious eye irritation.

Causes skin irritation.

Toxic to aquatic life

GHS PRECAUTIONARY CODES

Wash hands thoroughly after handling.

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

IF ON SKIN: Wash with plenty of water/...

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see IF ON SKIN, IF IN EYES on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

PICTOGRAMS**OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION**

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS	EC	MIN %	MAX %	HAZARD NOTES
Acrylate Copolymer				< 15	H315: Causes skin irritation. H319: Causes serious eye irritation.
Surfactant				< 15	H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.
Sodium Hydroxide	1310-73-2	215-185-5		< 5	H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage.
Biocide				< 0.1	H330: Fatal if inhaled. H310: Fatal in contact with skin. H301: Toxic if swallowed. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects.

SECTION 4 — FIRST-AID MEASURES**DESCRIPTION OF NECESSARY FIRST AID MEASURES**

IF INHALED	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
IF IN CONTACT WITH EYES	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

IF IN CONTACT WITH SKIN	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
IF INGESTED	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE and DELAYED

Acute irritation possible but no delayed effects known. Minor reversible damage when in contact.

INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED, IF NECESSARY

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

SECTION 5 — FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO ₂ , alcohol-resistant foam, or water spray.
EXTINGUISHING MEDIA NOT SUITABLE	None known.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	General Hazard: In large fire fuelled by other materials this product may decompose. Hazardous combustion products: Sulphur Oxides. Unusual Fire and Explosion Hazards: None known.
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS incl. PPE	Personal protective equipment: Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Do not breathe corrosive fumes from burning material. Keep upwind.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PPE & EMERGENCY PROCEDURES	Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.
ENVIRONMENTAL PRECAUTIONS	Avoid product from entering drains and open water sources. Discharge into the environment must be avoided.
METHODS & MATERIALS FOR CONTAINMENT & 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.

SECTION 7 — HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Do not mix with other chemicals. Do not ingest. Do not breathe vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
CONDITIONS FOR SAFE STORAGE	Keep out of reach of children. Keep this product in original closed container in cool area away from heat and strong oxidising agents. DO NOT store in mild steel containers unless suitably lined. Storage duration: 12 Months From the data on storage duration in this safety data sheet no agreed statement regarding the warrantee of application properties can be deduced.
INCOMPATIBILITIES	Conditions to avoid: Heat, Direct Sunlight. Substances to avoid: Strong Oxidizing agents.

SANS 10263-0 WAREHOUSING	None.
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SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS




OCCUPATIONAL EXPOSURE LIMITS (OEL)	Sodium Hydroxide: Short Term OEL-RL 2 mg/m ³
ADDITIONAL EXPOSURE LIMITS UNDER THE CONDITIONS OF USE	No additional data.
DNEL/DMEL AND PNEC-VALUES	No additional data.



APPROPRIATE ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. Ensure that eyewash stations and safety showers are close to the workstation location.

General safety and hygiene measures: **Avoid** contact with the skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

INDIVIDUAL PROTECTION MEASURES

EYE PROTECTION		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.
FACE PROTECTION		Clear face shield.
HAND PROTECTION		<p>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 must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p> <p>Full contact Material: Natural rubber, Neoprene gloves, Nitrile, PVC Minimum layer thickness: 0,11 mm Break through time: 480 min.</p> <p>Splash contact Material: Natural rubber, Neoprene gloves, Nitrile, PVC Minimum layer thickness: 0,11 mm Break through time: 480 min.</p> <p>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.</p>

BODY PROTECTION		Body protection must be chosen depending on activity and possible exposure, e.g., apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
RESPIRATORY PROTECTION		Use of respiratory protection is generally not required. Where risk assessment shows air-purifying respirators are appropriate use a moulded respirator Type FFP3 conforming to EN149:2001 as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

NOTE: 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 above 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.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOUR ETC):	Clear Colorless Liquid
ODOUR:	Slight
ODOUR THRESHOLD:	No test data available
pH:	3.5 – 5.0
MELTING/FREEZING POINT:	No test data available
INITIAL BOILING POINT AND BOILING RANGE:	No test data available
FLASH POINT:	Not applicable. Does not sustain combustion.
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:	1.03 – 1.05
SOLUBILITY(IES):	Soluble 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
OXIDIZING PROPERTIES:	Non-Oxidizing

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10 — STABILITY AND REACTIVITY

REACTIVITY	No dangerous reaction known under conditions of normal use.
CHEMICAL STABILITY	The product is stable if stored and handled as prescribed/indicated. This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.
POSSIBILITY of HAZARDOUS REACTIONS	No dangerous reaction known under conditions of normal use.
CONDITIONS TO AVOID	None known.
INCOMPATIBLE MATERIALS	Avoid contact with strong oxidising, reducing agents and bases. Avoid contact with all other chemicals
HAZARDOUS DECOMPOSITION PRODUCTS	In case of fire hazardous decomposition products may be produced such as: Carbon oxides.

SECTION 11 — TOXICOLOGICAL INFORMATION
TOXICOLOGICAL (HEALTH) EFFECTS

ACUTE TOXICITY	May be harmful if inhaled.
SKIN CORROSION/IRRITATION	Causes skin irritation.
SERIOUS EYE DAMAGE/EYE IRRITATION	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITIZATION	Based on available data, the classification criteria are not met.
GERM CELL MUTAGENICITY	Based on available data, the classification criteria are not met.
CARCINOGENICITY	Based on available data, the classification criteria are not met.
REPRODUCTIVE TOXICITY	Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE	Based on available data, the classification criteria are not met.
ASPIRATION HAZARD	Based on available data, the classification criteria are not met.

LIKELY SOURCES OF EXPOSURE

INHALATION	EYES	SKIN	INGESTION
Unlikely	Likely	Likely	Rare
Unpacking or mixing of product.	Unpacking or mixing of product.	Unpacking or mixing of product.	Unpacking or mixing of product.

SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Eyes: Causes serious eye irritation.

Skin: Causes skin irritation.

Inhalation: May be harmful if inhaled.

Chronic Exposure: Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact: Redness, Pain, Corrosion

Skin contact: Redness, Tearing, Irritation, Swelling

Ingestion: No symptoms known or expected.

Inhalation: No symptoms known.

DELAYED/IMMEDIATE/CHRONIC EFFECTS FROM LONG/SHORT TERM EXPOSURE

No additional test data available.

NUMERICAL MEASURES OF TOXICITY (SUCH AS ATE)

TEST	ROUTE	SPECIES	VALUE	EFFECTS
LD50	Oral	No data.	> 5 000 mg/kg bw	Refer above.
4Hr LD50 (Dust/Mist)	Inhalation	No data.	48.44 mg/kg bw	Refer above.
LD50	Dermal	No data.	> 5 000 mg/kg bw	Refer above.

INTERACTIVE EFFECTS

No additional data available.

WHERE SPECIFIC CHEMICAL DATA IS NOT AVAILABLE

No additional data available.

MIXTURES

No additional data available.

MIXTURES VS INGREDIENTS INFORMATION

No additional data available.

OTHER INFORMATION

No additional data available.

SECTION 12 — ECOLOGICAL INFORMATION

TOXICITY

Aquatic Toxicity (Calculation based on GHS additivity formula)		
TEST	SPECIES	VALUE
48Hr EC50	Fish	> 100 mg/l
48Hr EC50	Daphnia	5.91 mg/l
48Hr EC50	Algae	> 100 mg/l

PERSISTANCE AND DEGRADABILITY

No additional data available.

BIOACCUMULATIVE POTENTIAL

PARTITION COEFFICIENT: N-OCTANOL/WATER	
LOG-K _{ow}	No additional data available.

MOBILITY IN SOIL

No additional data available.

OTHER ADVERSE EFFECTS

No additional data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATION

Prior to implementing land disposal of waste residue (including waste sludge), consult with environmental regulatory agencies for guidance on acceptable disposal practices.

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. Avoid discharge into drains or the environment.

ECOLOGY – WASTE MATERIAL

Avoid release to the environment.

EMPTY CONTAINER

DO NOT reuse empty container for other storage. Consider recycling. Rinse/decontaminate thoroughly before re-filling, discarding in waste or return to supplier. Puncture container prior to disposal as waste.

SECTION 14 — TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION	ADR/RID	ADN(R)	IMDG	ICAO/IATA
UN NUMBER	Not Regulated			

SECTION 15 — REGULATORY INFORMATION

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.

SECTION 16 — OTHER INFORMATION

FULL TEXT OF H & P - STATEMENTS REFERRED TO UNDER SECTION 2

HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS
H315: Causes skin irritation. H319: Causes serious eye irritation. H333: May be harmful if inhaled. H410: Toxic to aquatic life.	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water/... P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321: Specific treatment (see IF ON SKIN, IF IN EYES on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents and container in accordance with local, regional, national, international regulations.

LABELLING SANS 10234:2008

SIGNAL WORD: WARNING

PICTOGRAMS

PHYSICAL & HEALTH HAZARD		ENVIRONMENTAL HAZARD		TRANSPORT	
GHS07	Health Hazard Substance	N/A	N/A	N/A	N/A



LEGEND TO ABBREVIATIONS & ACRONYMS

ABEK: Organic gases and vapours (BP>65°C);
Inorganic gases and vapours; Sulphur dioxide and
other acid
gases and vapours; Ammonia and organic ammonia
derivatives
ADN: European Agreement concerning the
International Carriage of Dangerous Goods by Inland
Waterways
ADR: European Agreement concerning the
International Carriage of Dangerous Goods by Road
BCF: Bioconcentration Factor
BOD5: Biological Oxygen Demand in 5
CAS: Chemical Abstracts Service
CEN: European Committee for Standardization
COD: Chemical Oxygen Demand
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level
EC: European Commission
EC50: Half Maximal Effective Concentration
EMS: Emergency Medical Services
ERG: Emergency Response Guidelines
EU: European Union
GHS: Globally Harmonized System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization

ICSC: International Chemical Safety Cards
IMDG: International Maritime Dangerous Goods
LC50: Lethal Concentration 50 (concentration in water
having 50% chance of causing death to aquatic life)
LD50: Lethal Dose 50 (median concentration of a
toxicant that will kill 50% of the test animals within a
designated period)
LOG-KOW: Logarithm - Octanol - Water Partition
Coefficient
NIOSH: National Institute for Occupational Safety and
Health (US CDC)
NTP: National Toxicology Program
OEL: Occupational Exposure Limit
OSHA: Occupational Safety and Health Administration
P, B, L & O: Packaging, Bulk Transport, Loading
Operation & Transport Operation
PBT: Persistent, Bio accumulative, and Toxic
PNEC: Predicted No-Effect Concentration
PPE: Personal Protection Equipment
RID: European Agreements Concerning the
International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical
Substances
SANS: South African National Standard
vPvB: Very Persistent Very Bio accumulative

KEY LITERATURE REFERENCES AND SOURCES

ECHA – European Chemical Agency

Surfactant: <https://echa-term.echa.europa.eu/en/web/guest/registration-dossier/-/registered-dossier/15896/1/1>

Sodium Hydroxide:

<https://echa.europa.eu/de/registration-dossier/-/registered-dossier/15566/1/1>

Biocide: <https://echa.europa.eu/de/registration-dossier/-/registered-dossier/23868/1/1>

TRAINING ADVICE

Ensure SDS is always available and provide adequate information, instruction, and training for operators.

COMPILED BY: Aquatrade Water Treatment Chemicals (Pty) Ltd, R. van Rooyen, SHEQ Coordinator

ISSUE DATE	VERSION NUMBER	REVISION	SUPERSEDE DATE
06 August 2021	1	0	06 August 2021

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