	H & S MANAGEMENT SYSTEM CLAUSE 8.1.1	Form No.	FOR041
	SAFETY DATA SHEET AQT921	Issue Date	2016/11/30
		Revision Date	2024/03/14
		Next Revision:	Mar-2028

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### GHS PRODUCT IDENTIFIER

AQT 921

### 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
GESTIS DATABASE:	Mixture not listed in registry
CHEMICAL FAMILY:	Mixture not identified
SYNONYMS:	INT 921
PROPER SHIPPING NAME:	NOT REGULATED FOR TRANSPORT
CHEMICAL FORMULA:	Mixture not identified
PRODUCT STOCK CODE/S:	AQT921A(25Kg), AQT921B(200Kg), AQT921C(1000Kg)
SDS LINK:	<a href="http://aquatradesa.ddns.net/owncloud/index.php/s/8bFEI85UEFUQNMG">http://aquatradesa.ddns.net/owncloud/index.php/s/8bFEI85UEFUQNMG</a>

RECOMMENDED USE	RESTRICTIONS ON USE
<b>AQT 921</b> is a specially formulated polymer solution designed to reduce scale formation and fouling in cooling and ash water systems. It is also useful in evaporators and most other systems where calcium carbonate scale needs to be prevented.	Not for end consumer use. Not for food, drug, or household use.

### SUPPLIER'S DETAILS

#### AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

[22 Grader Rd, Spartan](#)

Gauteng, South Africa

Tel: +27 11 394 0752

[info@aquatradesa.co.za](mailto:info@aquatradesa.co.za)

[www.aquatradesa.co.za](http://www.aquatradesa.co.za)

PO Box 357

Isando, 1600

### SDS Enquiries only

SDS ENQUIRIES ONLY		
NAME	TEL	HOURS AVAILABLE
<a href="#">R. van Rooyen</a>	+27 76 590 9559	SAST 08:00 – 16:00 Mon. – Fri.

EMERGENCY PHONE NUMBER		
NAME	TEL	HOURS AVAILABLE
<b>SPECIALIST</b>		
S. Biondi	+27 68 237 2033	Mon. – Fri. 05:00 –20:00 GMT
H. van Niekerk	+27 82 410 5540	Mon. – Fri. 05:00 –20:00 GMT
Spilltech	+27 86 100 0366	24/7
<b>OPERATOR</b>		
SHEQ Coordinator	+27 76 590 9559 +27 87 654 3326	24/7 Mon. – Fri. 06:00 –18:00 GMT

**SECTION 2 — HAZARDS IDENTIFICATION**  
**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Skin Corrosion/Irritation (Category 2), H315

Serious Eye Damage/Irritation (Category 2), H319

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

**GHS LABEL ELEMENTS**



**SIGNAL WORD:** DANGER

**GHS HAZARD CODES**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

**GHS PRECAUTIONARY CODES**

Wash exposed areas [HANDS] thoroughly after handling.

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

IF ON SKIN: Wash with plenty of water and soap.

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.

**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 Polymer	CBI	CBI	30	60	H315: Causes skin irritation. H319: Causes serious eye irritation.
Biocide	CBI	CBI		< 0.1	H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H410: Very toxic to aquatic life with long lasting effects.

*CBI – Information available to competent authority and or emergency responders.*

## SECTION 4 — FIRST-AID MEASURES

### DESCRIPTION OF NECESSARY FIRST AID MEASURES

Call 112 or 10177 or your local emergency help number immediately, for emergency assistance. Provide them with information such as the compound taken, quantity and time of ingestion, age, weight, and general health status of affected individual. Carefully remove the individual from the exposure area.

<b>IF INHALED</b>	Move the victim to fresh air or remove source of contamination. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Qualified personnel should perform administration of oxygen. Get medical attention immediately.
<b>IF IN CONTACT WITH EYES</b>	Immediately flush the contaminated eyes with gently flowing clean water for 15 to 20 minutes, occasionally lifting the upper and lower lids. Immediately seek medical advice.
<b>IF IN CONTACT WITH SKIN</b>	Move the victim to fresh air and remove all contaminated clothing, shoes, and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. Persons who become sensitized may require specialized medical management. Immediately seek medical advice.
<b>IF INGESTED</b>	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately. Qualified medical personnel should perform administration of oxygen. If the person is alert, rinse mouth thoroughly with water and give person large volumes of water or milk to drink. When vomiting occurs, keep head lower than hips to prevent aspiration.
<b>GENERAL ADVICE</b>	Check the vital functions. <b>Unconscious:</b> maintain adequate airway and respiration. <b>Respiratory arrest:</b> artificial respiration or oxygen. <b>Cardiac arrest:</b> perform resuscitation. Victim conscious with laboured breathing: half-seated. <b>Victim in shock:</b> on his back with legs slightly raised. <b>Vomiting:</b> prevent asphyxia/aspiration pneumonia.  Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE and DELAYED

<b>IF INHALED</b>	No additional data available.
<b>IF IN CONTACT WITH EYES</b>	Corrosion of the eye tissue. Permanent eye damage. Causes serious eye damage.
<b>IF IN CONTACT WITH SKIN</b>	Corrosion of the skin. Slow-healing wounds.
<b>IF INGESTED</b>	No additional data available.

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

Treat symptomatically. If the product has been ingested, inhaled, observe for latent pulmonary oedema.

## SECTION 5 — FIRE-FIGHTING MEASURES

<b>SUITABLE EXTINGUISHING MEDIA</b>	Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock but avoid water coming in contact with the product.
<b>EXTINGUISHING MEDIA NOT SUITABLE</b>	None. Use as little water as possible. Use spray or fog. Solid stream may cause spreading.

<p><b>SPECIFIC HAZARDS ARISING FROM THE CHEMICAL</b></p>	<p><b>Fire and explosion hazard:</b> Product burns with difficulty.  <b>Hazardous products of combustion:</b> Thermal decomposition products may release toxic and/or hazardous fumes and gases, including nitrogen oxides, carbon oxides and ammonia.</p>
<p><b>SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS incl. PPE</b></p>	<p><b>Firefighting Procedure:</b> Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Dike fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Contain water used for firefighting for later disposal. Avoid the accumulation of polluted run-off from the site.</p> <p><b>Personal protective equipment:</b> Fire fighters and others that may be exposed should wear self-contained breathing apparatus pressure-demand, SANS 50137:2011 (approved or equivalent) and full protective gear. Do not breathe corrosive fumes from burning material. Keep upwind.</p>

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

<p><b>PERSONAL PRECAUTIONS, PPE &amp; EMERGENCY PROCEDURES</b></p>	<p><b>COMMUNICATION:</b> Communicate the hazard immediately regardless of the severity. Other staff working in the area and those in supervisory roles need to be notified. If warranted, evacuate the area, and follow emergency procedures. In the case of this, communicate what spilt and how much of it to the dispatcher. This is so that appropriate action can be taken by first responders quickly after their arrival on site.</p> <p><b>CONTROL:</b> Once the spill has been communicated to the appropriate parties, control it. Take measures to stop or reduce the impact of the spill. This involves closing valves and putting a tipped over container the right way up, for example. Depending on the chemical nature and severity of the spill, this step may need PPE. For example, respiratory protection.</p> <p>If required, shut down heat sources or any possible sources of ignition. To diffuse fumes, increase ventilation to the area of concern. Unless the fumes are a hazard themselves, in which case isolate the area. This can be done by shutting vents, windows, and doors (after evacuation).</p> <p><b>CONTAIN:</b> By now the immediate situation would have been taken care of. So, now it's time to contain the spill. This step involves ensuring the spill doesn't contaminate neighbouring areas. Prevent the spill from spreading to drains or flowing into environmentally sensitive areas.</p> <p>Depending on what spilt, you can contain it by using absorbent mats or neutralisers. Spread them around the boundary of the spill and then work them into the centre of it. Some situations will need a dike to be built or a spill sock to be used in the blocking or directing of the spillage.</p> <p>If during the process you need to leave the area of concern, block access to the spillage. Do this with caution tape or some other barrier so that other people in the workplace don't come into contact with it.</p>
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	<p><b>CLEAN-UP:</b> The final step in the 4-part spill response process is the clean-up. Dispose of any absorbent mats and other neutralising materials. Rubbish bags or pails/drums can be used for this, depending on the size of the spill.</p> <p>Sometimes the nature of the spill will mean that any brooms, brushes, pans, or other equipment used to clean-up to be disposed of too. If it is a hazardous material that is being disposed of, do so in line with the local environmental law and regulation. This includes labelling before disposal.</p> <p>Wash any affected surfaces with the correct solution for the spill at hand. This could be, for example, detergent, water, or bleach. Hands, clothes, and any other areas that have been in contact with the spilled material may also need decontamination.</p>
<p><b>ENVIRONMENTAL PRECAUTIONS</b></p>	<p>Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs. Report spills more than the NEMA reporting quantity to the Department of Environment, Forestry and Fisheries Tel: +27 86 111 2468 or E-mail: <a href="mailto:callcentre@environment.gov.za">callcentre@environment.gov.za</a>.</p>
<p><b>METHODS &amp; MATERIALS FOR CONTAINMENT &amp; CLEANING UP</b></p>	<p><b>Occupational spill:</b> Do not touch-spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.</p> <p><b>For spills:</b> Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. Label containers with its content and dispose it in accordance with local regulations. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind. Open burning or dumping of this material is prohibited. Do not get water inside containers.</p>

**SECTION 7 — HANDLING AND STORAGE**

<p><b>PRECAUTIONS FOR SAFE HANDLING</b></p>	<p>Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high-water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.</p> <p><b>Hygiene measures:</b> Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put-on clean clothing.</p>
<p><b>CONDITIONS FOR SAFE STORAGE</b></p>	<p><b>Storage area:</b> Store in a cool, dry area. Keep container in a well-ventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.</p> <p><b>Storage conditions:</b> Storage temperature 10 - 27°C.</p> <p><b>Collocated storage:</b> Prohibited – Pharmaceuticals, foods, and animal feeds including additives.</p> <p><b>Organisational Measures:</b> Do not use any food containers - risk of mistake. Containers must be labelled clearly and permanently. Store in the original container as much as possible. Provide instruction on the hazards and the protective measures using an instruction manual is required with signature if just</p>

more than one minor hazard was detected. Instruction must be provided before employment and then at a minimum of once per annum thereafter.

**Segregation and or Separation requirements:**

Compatible	Dangerous goods of the same Class should be compatible; consult SDS or suppliers about requirements for individual substances.	Class 8
Keep Apart	Dangerous goods of these Classes should be kept apart by at least 3m. Consult the SDS or supplier.	Class 2.1, 2.2, 2.3, 3, 4.1, 4.2, and 4.3.
Segregate From	These combinations of dangerous goods should segregate by at least 5 m and kept in separate compounds or building compartments.	Class 1, 5.1, 6.1, 6.2 and 7
Segregation may be Necessary	Segregation of these Classes may be necessary. Consult the SDS or supplier.	N/A
Isolate	This requirement applies to organic peroxides, for which dedicated stores or storage cabinets are recommended. Adequate separation from other buildings and boundaries is required.	Class 5.2
Dangerous goods of the same class could be incompatible or react dangerously; Consult SDS or suppliers about requirements for individual substances.		Class 8

**NOTES:**

1. In all cases, the SDS or supplier of the goods should **ALWAYS** be consulted.
  2. Non-dangerous goods may be kept in segregation spaces, if they will not react dangerously with any of the dangerous goods being kept.
  3. Non-dangerous goods that are combustible (excluding combustible liquids) may be kept in such spaces, provided that.
    - a) hazard assessment, including an assessment of the additional fire load, has been carried out; and
    - b) any necessary additional fire protection is provided.
- The volume of any non-dangerous goods kept in the segregation spaces needs to be considered when calculating the volume of the spillage containment for the store.

**UN Packaging Codes**

Stock Code	Pack Size	Make & Category	UN Code
AQT921A	25 Kg	Jerrican Plastics Non-Removable Head	UN3H1/Y
AQT921B	200 Kg	Drums Plastics Non-Removable Head	UN1H1/Y
AQT921C	1 000 Kg	Composite IBC Plastic Receptacle Steel Cage	UN31HA1/Y

**Shelf Life:** 12 Months.

**INCOMPATIBILITIES**

**Conditions to avoid:** Heat, Direct Sunlight.

**Substances to avoid:** Strong Oxidizing agents. Strong bases.

**SANS 10263-0 WAREHOUSING**

**8.4.3.2** Where flammable or **corrosive** substances are stored, the floor shall slope away from the storage area (primary collection area) to a secondary catch basin or sump of capacity at least 10 % of the total available storage volume of the fire section concerned. The secondary catch basin shall be within the fire

section and shall be such that it can be well ventilated. Care shall be taken in the design of such areas to prevent contamination of the soil or ground water.

**9.7.2** Every type of storage area inside a warehouse shall be clearly demarcated, for example separate storage areas for poisons, flammables and **corrosives** shall display the relevant hazard class diamond (see table 1). The dimensions of the hazard class diamonds shall be at least 250 mm x 250 mm.

**12.8.5** Storage of flammable liquids of class 3, toxic substances of division 6.1 and **corrosives** of class 8.

Nitro-methane class 3, UN No. 1261, shall be separated from substances of class 6.1, and cyanides of division 6.1 shall be separated from acids of class 8. Concentrated acids and bases shall be segregated by at least 1 m. Packaged flammable liquids of class 3, toxic substances of division 6.1 and corrosives of class 8 that are of category 3 can be stored in the same area, provided that.

- a) they are kept above floor level, and
- b) liquid dangerous goods of one class are not stored above dangerous goods of another class.

**12.8.8.3** Toxic and infectious substances (see class 6 in SANS 10228) can contaminate firefighting water in the event of a fire, therefore:

- a) Toxic and infectious substances shall be separated from other flammable products and aerosols.
- b) Toxic and infectious substances shall be segregated from oxidizing substances, organic peroxides, and **corrosives**.
- c) Flammable toxic and infectious substances shall be separated from non-flammable toxic and infectious substances (see 12.8.8.1).

**12.8.8.4** Corrosives (see class 8 in SANS 10228) that leak or spill from their packaging can cause serious damage to other packages, with potentially hazardous consequences.

**Corrosives** shall be segregated from toxic substances, infectious substances, aerosols, flammables, oxidizing substances, and organic peroxides.

The provisions of above apply to the storage of the following quantities of dangerous goods.

<b>CORROSIVES (ACIDS AND BASES CLASS 8)</b>	
Category 1	> 50 Kg
Category 2	> 200 Kg
Category 3	> 1 000 Kg

## SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION CONTROL PARAMETERS






<b>OCCUPATIONAL EXPOSURE LIMITS (OEL)</b>	Contains no substances with maximum and or recommended occupational exposure limit values.
<b>ADDITIONAL EXPOSURE LIMITS UNDER THE CONDITIONS OF USE</b>	Contains no substances with biological exposure indices.

<b>DNEL/DMEL AND PNEC-VALUES</b>	Not available.
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### APPROPRIATE ENGINEERING CONTROLS

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

### INDIVIDUAL PROTECTION MEASURES

<b>EYE PROTECTION</b>		Wear safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as SANS 50166:2018. Contact lenses should not be worn as they may contribute to severe eye injury.
<b>FACE PROTECTION</b>		If the face is at risk a protective shield must also be worn tested and approved under appropriate government standards such as SANS 1400:2010.
<b>HAND PROTECTION</b>		Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well-ventilated location. Pay attention to skin care. Skin protection cremes do not protect sufficiently against the substance. Textile or leather gloves are completely unsuitable. Currently there is no information available regarding suitable glove materials. Ask the manufacturer for suitable materials.  Suggested material: Neoprene, Nitrile, Rubber or PVC Gloves  If used in solution, or mixed with other substances, and under conditions which differ from SANS 416:2021 or SANS 1228:2012, contact the supplier of the CE approved gloves.
<b>BODY PROTECTION</b>		Complete suit protecting against chemicals tested and approved under appropriate government standards such as SANS 54325:2019. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>RESPIRATORY PROTECTION</b>		Where risk assessment shows air-purifying respirators are appropriate use an elastomeric half-face particle respirator with type ABEK1P3, SANS 50141:2003 combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use an elastomeric full-face respirator. Use respirators and components tested and approved under appropriate government standards such as SANS 50136:1998, SANS 50137:2011, SANS 50140:1998.  Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacture.

**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.

**Occupational hygiene:** Foods, beverages and other articles of consumption must not be consumed at the work areas. Suitable areas are to be designated for these purposes. Avoid contact with skin. Avoid contact with eyes. Avoid inhalation of dust. Avoid contact with clothing. Contaminated clothes must be exchanged and cleaned carefully. Provide washrooms with showers and if possible, rooms with separate storage for street clothing and work clothing.

The skin must be washed with soap and water before breaks and at the end of work. Apply fatty skin-care products after washing. Take care of personal hygiene.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE (PHYSICAL STATE, COLOUR ETC):</b>	Clear Liquid
<b>ODOUR:</b>	No test data available
<b>ODOUR THRESHOLD:</b>	No test data available
<b>pH:</b>	2.0 – 5.0
<b>MELTING/FREEZING POINT:</b>	No test data available
<b>INITIAL BOILING POINT AND BOILING RANGE:</b>	No test data available
<b>FLASH POINT:</b>	Do not flash
<b>EVAPORATION RATE:</b>	No test data available
<b>FLAMMABILITY (SOLID, GAS):</b>	Not flammable
<b>UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b>	Not explosive
<b>VAPOUR PRESSURE:</b>	No test data available
<b>VAPOUR DENSITY:</b>	No test data available
<b>RELATIVE DENSITY:</b>	1.13 – 1.16
<b>SOLUBILITY(IES):</b>	No test data available
<b>PARTITION COEFFICIENT: N-OCTANOL/WATER:</b>	No test data available
<b>AUTO-IGNITION TEMPERATURE:</b>	No test data available
<b>DECOMPOSITION TEMPERATURE:</b>	No test data available
<b>VISCOSITY:</b>	No test data available
<b>OXIDIZING PROPERTIES:</b>	No test data available

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

## SECTION 10 — STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Thermal decomposition generates corrosive vapours. <b>Corrosion to metals:</b> Corrosive effect on metals. <b>Remarks:</b> Forms no flammable gases in the presence of water.
<b>CHEMICAL STABILITY</b>	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.
<b>POSSIBILITY of HAZARDOUS REACTIONS</b>	Hazardous polymerisation will not occur under normal conditions.
<b>CONDITIONS TO AVOID</b>	Avoid high temperatures. Poor ventilation. Direct sunlight.
<b>INCOMPATIBLE MATERIALS</b>	This product is incompatible with strong oxidizers. Aqueous solution in contact with aluminium evolves hydrogen. Avoid contact with aluminium, zinc, and other metals. Strong bases. <b>Corrosivity:</b> Corrosive to stainless steel, zinc, and aluminium.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Under fire conditions the product may support combustion and decomposes to give off carbon oxides fumes (CO, CO <sub>2</sub> ), hydrogen and iron chlorides,

## SECTION 11 — TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL (HEALTH) EFFECTS

<b>ACUTE TOXICITY</b>	Based on available data, the classification criteria are not met.
<b>SKIN CORROSION/IRRITATION</b>	Cause skin irritation.
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	Cause serious eye damage.
<b>RESPIRATORY OR SKIN SENSITIZATION</b>	Based on available data, the classification criteria are not met.

<b>GERM CELL MUTAGENICITY</b>	Based on available data, the classification criteria are not met.
<b>CARCINOGENICITY</b>	The agent (mixture) is probably not carcinogenic to humans. (There is data mostly indicating [failing to find] that the mixture is carcinogenic).
<b>REPRODUCTIVE TOXICITY</b>	Based on available data, the classification criteria are not met.
<b>SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE</b>	Based on available data, the classification criteria are not met.
<b>SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE</b>	Based on available data, the classification criteria are not met.
<b>ASPIRATION HAZARD</b>	Based on available data, the classification criteria are not met.

### LIKELY SOURCES OF EXPOSURE

INHALATION	EYES	SKIN	INGESTION
Rare	Unlikely	Likely	Rare
Possible exposure during mixing.	Possible exposure during mixing.	Possible exposure during mixing.	Possible exposure in case of unhygienic practices.

### SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Refer toxicological (health) effects above.

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

On continuous/repeated exposure/contact: Dry skin. Skin rash/inflammation. Possible inflammation of the respiratory tract.

### NUMERICAL MEASURES OF TOXICITY (SUCH AS ATE)

Calculation based on GHS additivity formula.

TEST	ROUTE	SPECIES	VALUE	EFFECTS
LD50	Oral	GHS additivity formula	> 5 000 mg/kg bw	Refer above section 11.1
LC50	Inhalation	GHS additivity formula	> 20 mg/L	Refer above section 11.1
LD50	Dermal	GHS additivity formula	> 5 000 mg/kg bw	Refer above section 11.1

### INTERACTIVE EFFECTS

No additional information available.

### WHERE SPECIFIC CHEMICAL DATA IS NOT AVAILABLE

No additional information available.

### MIXTURES

No additional information available.

### MIXTURES VS INGREDIENTS INFORMATION

No additional information available.

### OTHER INFORMATION

No additional information available.

### SECTION 12 — ECOLOGICAL INFORMATION

#### TOXICITY

Aquatic Toxicity Species	GHS Additivity Formula
Fish	> 100 mg/L
Invertebrates	> 100 mg/

Algae	> 100 mg/
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### PERSISTANCE AND DEGRADABILITY

OECD Test Guideline 301 (A-F)	
BOD <sub>5</sub>	No additional data available.
COD	No additional data available.

### BIOACCUMULATIVE POTENTIAL

PARTITION COEFFICIENT: N-OCTANOL/WATER	
LOG-K <sub>ow</sub>	No additional data available.
BIOCONCENTRATION FACTOR	
BCF	No additional data available.

### MOBILITY IN SOIL

No additional data available.

### OTHER ADVERSE EFFECTS

DO NOT discharge effluent containing this product into bodies of water unless in accordance with international, national and/or provincial law.

### SECTION 13 — DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL RECOMMENDATION

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 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.



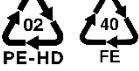
#### ECOLOGY – WASTE MATERIAL

DO NOT release to the environment.

#### EMPTY CONTAINER

Avoid reuse of empty container for other storage purposes.

#### Recycling Information

Packaging Type	Description	UN Code	Portion & Material	Symbol
Jerrican	Plastics Non-Removable Head	UN3H1/Y	Body & Enclosure (HDPE)	
Drums	Plastics Non-Removable Head	UN1H1/Y	Body & Enclosure (HDPE)	
Composite IBC	Plastic Receptacle Steel Cage	UN31HA1/Y	Body & Enclosure (HDPE) Cage (Steel)	

### SECTION 14 — TRANSPORT INFORMATION

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

## SPECIAL INSTRUCTIONS FOR USER

### Transport Load Compatibility

**DO NOT** load with Class 1 and 7.

May be loaded together with all other classes if kept 1 metre apart.

**Note:** 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.

## TRANSPORT IN BULK ACCORDING TO ANNEX II of MARPOL 73/78 and THE IBC CODE

Not applicable.

## 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.

National Environmental Management Act 107 of 1998 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.	P264: Wash exposed areas [HANDS] thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. 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 SWALLOWED, IF ON SKIN, IF INHALED, 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.

**LABELLING SANS 10234:2008**  
**SIGNAL WORD: DANGER**

**PICTOGRAMS**

PHYSICAL & HEALTH HAZARD		ENVIRONMENTAL HAZARD	TRANSPORT
GHS07	Health Hazard Substance	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**

Source	Hyperlink
GESTIS DATABASE	CBI
ECHA – European Chemical Agency	CBI
PUBCHEM DATA	CBI
ICSC	CBI
CAMEO CHEMICALS	CBI
USCG CHRIS Code	CBI
RTK Hazardous Substance Fact Sheet	CBI
NIOSH POCKET GUIDE	CBI
RTECS - NIOSH"	CBI
USA EPA COMPTOX	CBI

*CBI – Information available to competent authority and or emergency responders.*

**TRAINING ADVICE**

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

COMPILED BY: [CST Comp: R. van Rooyen.](#)

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23 November 2018	0	1	30 November 2016
30 November 2016	0	0	Original (MSDS)

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