

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: Piranha Dry (Glyphosate 757 g/kg)
Type of product	: Herbicide
CAS-No.	: 38641-94-0
Product group	: End product

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	: A water soluble granular non-selective foliar, systemic herbicide for the control of a wide range of annual and perennial grasses, broadleaf weeds and certain woody perennials as listed in agriculture, non-crop and industrial sites.
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1.3. Supplier's details

Supplier

Farm-Ag International (Pty) Ltd
Old Mill Industrial Park
61, Marshall Drive
P.O. Box 1523
4300 Mount Edgecombe – Durban KwaZulu Natal
South Africa
T 031 003 3486

1.4. Emergency telephone number

Emergency number	: 24 Hr Emergency Number: In case of Poisoning: Poison Information Helpline : 0861 555 777
	In case of Spillage: HAZMAT:0800 147 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 5	H303
Acute toxicity (dermal), Category 5	H313
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H-statements: see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA)	: Danger
Hazardous ingredients	: Glyphosate isopropyl ammonium salt 95% TC, Amines, tallow alkyl, ethoxylated, Fatty alcohol polyoxyethylene ether, ammonium sulphate

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according to SANS 10234:2019 and SANS 11014:2010

Hazard statements (GHS ZA)	: H303 - May be harmful if swallowed H313 - May be harmful in contact with skin H315 - Causes skin irritation. H318 - Causes serious eye damage. H332 - Harmful if inhaled. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS ZA)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P261 - Avoid breathing dust. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P304+P340 - IF INHALED: Remove person to fresh air and keep 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, a doctor. P312 - Call a doctor if you feel unwell. P321 - Specific treatment (see ANTIDOTE on this label). P332+P313 - If skin irritation occurs: Get medical advice. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Harmful if inhaled,Harmful if swallowed,Causes skin irritation,Causes serious eye damage,Toxic to aquatic life,Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Glyphosate isopropyl ammonium salt 95% TC	CAS-No.: 38641-94-0	≥ 75 – < 80	Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Amines, tallow alkyl, ethoxylated	CAS-No.: 61791-26-2	≥ 10 – < 15	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
ammonium sulphate	CAS-No.: 7783-20-2	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 3, H402
Fatty alcohol polyoxyethylene ether	CAS-No.: 37335-03-8	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Advice to doctors: This product is not an inhibitor of cholinesterase.

Antidote: Treatment with atropine and oximes is not indicated.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Personal protection (Emergency response)	: Gloves, Protective goggles, Protective clothing, Wear respiratory protection



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions, Protective Equipment and Emergency Procedures	: Do not breathe in mist or fumes. Avoid contact with skin and eyes. Do not swallow.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid breathing dust. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Dig up heavily contaminated soil. Collect in containers for disposal. Flush spill area with water. Minimise use of water to prevent environmental contamination.
Other information	: Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist. Avoid contact with skin and eyes. Wear personal protective equipment.
Technical measures	: Avoid contact with eyes. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Emptied packages retain product residue and dust.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage area	: Store in a dry area.
Incompatible materials	: Galvanized steel, unlined mild steel. Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: Water supplies. Food supplies.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

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according to SANS 10234:2019 and SANS 11014:2010

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Free flowing granules.
Colour	: Brown. Off white.
Odour	: Mild odour.
Odour threshold	: No data available
pH	: 4.1
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 36.8 g/cm ³
Relative gas density	: No data available
Solubility	: Soluble.
Partition coefficient n-octanol/water (Log Pow)	: -3.2 at 25°C
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Particle size	: 0.8 µm

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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according to SANS 10234:2019 and SANS 11014:2010

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Ingestion, short term, case report(s):
Gastro-intestinal effects: irritation
Acute toxicity (dermal) : May be harmful in contact with skin.
Acute toxicity (inhalation) : Harmful if inhaled.

Piranha Dry (Glyphosate 757 g/kg) (38641-94-0)	
ATE ZA (oral)	2676.48 mg/kg bodyweight
ATE ZA (Dermal)	2500 mg/kg bodyweight
ATE ZA (dust, mist)	1.5 mg/l/4h
Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	92.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 20.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Glyphosate isopropyl ammonium salt 95% TC (38641-94-0)	
LD ₅₀ oral rat	> 5000 mg/kg (Rat, Oral)
LD ₅₀ oral	5700 Goat
LD ₅₀ dermal rat	(Rat, Dermal)
LD ₅₀ dermal rabbit	> 5000
LC ₅₀ Inhalation - Rat	> 1.3 mg/l/4h

Amines, tallow alkyl, ethoxylated (61791-26-2)	
LD ₅₀ oral rat	500 mg/kg Source: National Library of Medicine
LD ₅₀ dermal rat	> 10000 mg/kg Source: National Library of Medicine

ammonium sulphate (7783-20-2)	
LD ₅₀ oral rat	640 mg/kg
LD ₅₀ dermal rat	> 2000 mg/kg bodyweight (OECD 434: Acute Dermal Toxicity - Fixed Dose Procedure, Rat, Male / female, Experimental value, Dermal, 14 day(s))

Skin corrosion/irritation : Slightly irritating
pH: 4.1

Serious eye damage/irritation : Slight eye irritant
pH: 4.1

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not mutagenic

Carcinogenicity : Chronic effects/carcinogenicity:
Mouse, oral, 24 months:
NOEL tumour:>30,000 mg/kg diet
NOAEL toxicity: ~ 5,000 mg/kg diet
Tumours: none
Target organs/systems: liver
Other effects: decrease of body weight gain, histopathologic effects
Rat, oral, 24 months:
NOEL tumour: >20,000 mg/kg diet
NOAEL toxicity: ~ 8,000 mg/kg diet
Tumours: none
Target organs/systems: eyes. Other effects: decrease of body weight gain, histopathologic effects

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according to SANS 10234:2019 and SANS 11014:2010

Reproductive toxicity	: Toxicity to reproduction/fertility: Rat, oral, 2 generations: NOAEL toxicity: 10,000mg/kg diet NOAEL reproduction: > 30,000 mg/kg diet Target organs/systems in parents: none Other effects in parents: decrease of body weight gain Target organs/systems in pups: none Other effects in pups: decrease of body weight gain Effects on offspring only observed with maternal toxicity.
STOT-single exposure	: Not classified

ammonium sulphate (7783-20-2)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Eye contact, excessive, occupational: Eye effects: irritation Skin contact, excessive, occupational: Skin effects: irritation, sensitization in susceptible individuals Inhalation, excessive, occupational: Respiratory effects: respiratory sensitization, irritation, asthma
Aspiration hazard	: Not classified

Piranha Dry (Glyphosate 757 g/kg) (38641-94-0)

Viscosity, kinematic	Not applicable
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Piranha Dry (Glyphosate 757 g/kg) (38641-94-0)

Partition coefficient n-octanol/water (Log Pow)	-3.2 at 25°C
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Glyphosate isopropyl ammonium salt 95% TC (38641-94-0)

LC ₅₀ - Fish [1]	> 1000 mg/kg Trout
LC ₅₀ - Fish [2]	> 1000 mg/kg Bluegill sunfish
EC ₅₀ - Crustacea [1]	930 mg/l
EC ₅₀ - Other aquatic organisms [1]	5600 mg/l Midge larva
EC ₅₀ - Other aquatic organisms [2]	> 343 Tadpoles
EC ₅₀ 72h - Algae [1]	72.9 mg/l (Scenedesmus subspicatus)
ErC ₅₀ algae	166 mg/l
Partition coefficient n-octanol/water (Log Kow)	-5.4
Additional ecotoxicological information	Birds: Bobwhite quail >3851 mg/kg, quail and ducks >4640 mg/kg. Bees: Oral and dermal LD ₅₀ is > 0.1 ug/bee.

Amines, tallow alkyl, ethoxylated (61791-26-2)

LC ₅₀ - Fish [1]	0.68 mg/l Source: The ECOTOXicology database
EC ₅₀ - Crustacea [1]	2.35 mg/l Source: The ECOTOXicology database

ammonium sulphate (7783-20-2)

LC ₅₀ - Fish [1]	53 mg/l (96 h, Oncorhynchus mykiss, Fresh water)
EC ₅₀ - Crustacea [1]	169 mg/l (48 h, Daphnia magna, Static system, Fresh water)

Piranha Dry (Glyphosate 757 g/kg)

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according to SANS 10234:2019 and SANS 11014:2010

ammonium sulphate (7783-20-2)

Partition coefficient n-octanol/water (Log Pow)	-5.1 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
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12.2. Persistence and degradability

Piranha Dry (Glyphosate 757 g/kg) (38641-94-0)

Persistence and degradability	No additional information available
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Glyphosate isopropyl ammonium salt 95% TC (38641-94-0)

Persistence and degradability	Not readily biodegradable in water.
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ammonium sulphate (7783-20-2)

Persistence and degradability	Biodegradability in water: no data available.
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12.3. Bioaccumulative potential

Piranha Dry (Glyphosate 757 g/kg) (38641-94-0)

Partition coefficient n-octanol/water (Log Pow)	-3.2 at 25°C
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Bioaccumulative potential	No additional information available
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Glyphosate isopropyl ammonium salt 95% TC (38641-94-0)

Partition coefficient n-octanol/water (Log Kow)	-5.4
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Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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ammonium sulphate (7783-20-2)

Partition coefficient n-octanol/water (Log Pow)	-5.1 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
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Bioaccumulative potential	Not bioaccumulative.
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12.4. Mobility in soil

Piranha Dry (Glyphosate 757 g/kg) (38641-94-0)

Mobility in soil	No additional information available
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Partition coefficient n-octanol/water (Log Pow)	-3.2 at 25°C
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Glyphosate isopropyl ammonium salt 95% TC (38641-94-0)

Partition coefficient n-octanol/water (Log Kow)	-5.4
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ammonium sulphate (7783-20-2)

Partition coefficient n-octanol/water (Log Pow)	-5.1 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
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Ecology - soil	No (test)data on mobility of the substance available.
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12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.




SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

Piranha Dry (Glyphosate 757 g/kg)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
14.1. UN number		
3077	3077	3077
14.2. Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains glyphosate 757 g/kg)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains glyphosate 757 g/kg)	Environmentally hazardous substance, solid, n.o.s. (contains glyphosate 757 g/kg)
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

SANS

Special provisions (SANS) : 179, 274, 331, 335
Limited quantities (SANS) : 5 kg
Limited quantities (SANS) : 5 kg
Packagings, large packagings and IBCs Packing instructions (SANS) : P002, IBC08, LP02
Packagings, large packagings and IBCs Special packing instructions (SANS) : PP12, B3
Portable tank and bulk containers instructions (SANS) : T1, BK2
Portable tank and bulk container special provisions (SANS) : TP33

IMDG

Special provisions (IMDG) : 274, 335, 966, 967, 969
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : BK1, BK2, BK3, T1
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG) : A

IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956

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CAO max net quantity (IATA) : 400kg
Special provisions (IATA) : A97, A158, A179, A197, A215
ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Issue date : 31/08/2022

Full text of H-statements

H302	Harmful if swallowed.
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.