

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Prelude 750 WG (Sulfosulfuron 750 g/kg)
Type of product	: Herbicide
CAS-No.	: 141776-32-1
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 dispersible granule systemic herbicide for the control of weeds as listed, in wheat in the winter rainfall area.
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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 4	H302
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 2A	H319
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
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)	: Warning
Hazardous ingredients	: Sulfosulfuron TC, sodium dodecyl sulphate, ammonium sulphate
Hazard statements (GHS ZA)	: H302+H332 - Harmful if swallowed or if inhaled H313 - May be harmful in contact with skin

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according to SANS 10234:2019 and SANS 11014:2010

Precautionary statements (GHS ZA)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation. H410 - Very toxic to aquatic life with long lasting effects. 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 vapours, spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. 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. P312 - Call a POISON CENTER or doctor if you feel unwell. P330 - Rinse mouth. 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. P391 - Collect spillage. P501 - Dispose of container to an approved waste disposal plant.
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### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects	: Harmful if inhaled,Harmful if swallowed,Harmful in contact with skin,Causes skin irritation,Causes serious eye irritation,Very toxic to aquatic life with long lasting effects.
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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Sulfosulfuron TC	CAS-No.: 141776-32-1	≥ 75 – < 80	Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ammonium sulphate	CAS-No.: 7783-20-2	≥ 10 – < 15	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
Naphthalenesulfonic acid polymer with formaldehyde sodium salt	CAS-No.: 9084-06-4	≥ 5 – < 10	Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal)
sodium dodecyl sulphate	CAS-No.: 151-21-3	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

# Prelude 750 WG (Sulfosulfuron 750 g/kg)

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according to SANS 10234:2019 and SANS 11014:2010

### 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Water spray as a fog can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Do not use direct jet of water. Contain water used for fire-fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

#### 5.2. Special hazards arising from the substance or mixture

Explosion hazard	: If this material is milled or the process generates fines, the fines could form an explosive mixture if dispersed in a sufficient quantity of air. Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.
Hazardous decomposition products in case of fire	: Carbon monoxide (CO), sulphur oxides (SO <sub>x</sub> ), hydrogen chloride (HCl), nitrogen oxides (NO <sub>x</sub> ), ammonia (NH <sub>3</sub> ).

#### 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.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid breathing vapours, spray. Avoid contact with skin, eyes and clothing.
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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

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.

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### 6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Use vacuum equipment designed specifically for combustible dust. Dig up heavily contaminated soil. Collect in containers for disposal. Flush residues with small quantities of 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 vapours, spray. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.
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 out of reach of unauthorised persons, children and animals.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: Food supplies. Water supplies.
Maximum storage period	: 2 years
Storage temperature	: ≤ 54 °C

## 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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granule.
Colour	: White.
Odour	: No data available
Odour threshold	: No data available
pH	: 4.9

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according to SANS 10234:2019 and SANS 11014:2010

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	: > 54
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
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

### 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

### 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)	: Harmful if swallowed.
Acute toxicity (dermal)	: May be harmful in contact with skin.
Acute toxicity (inhalation)	: Harmful if inhaled.

# Prelude 750 WG (Sulfosulfuron 750 g/kg)

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according to SANS 10234:2019 and SANS 11014:2010

<b>Prelude 750 WG (Sulfosulfuron 750 g/kg) (141776-32-1)</b>	
ATE ZA (oral)	938.329 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)	76.14% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 84.14% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 25% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

<b>Sulfosulfuron TC (141776-32-1)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 3 mg/l

<b>Naphthalenesulfonic acid polymer with formaldehyde sodium salt (9084-06-4)</b>	
LD50 oral rat	3800 mg/kg
LD50 dermal rabbit	> 16000 mg/kg

<b>sodium dodecyl sulphate (151-21-3)</b>	
LD50 oral rat	1200 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))

<b>ammonium sulphate (7783-20-2)</b>	
LD50 oral rat	640 mg/kg
LD50 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	: Causes skin irritation. pH: 4.9
Serious eye damage/irritation	: Causes serious eye irritation. pH: 4.9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

<b>ammonium sulphate (7783-20-2)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

<b>Prelude 750 WG (Sulfosulfuron 750 g/kg) (141776-32-1)</b>	
Viscosity, kinematic	Not applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

<b>Sulfosulfuron TC (141776-32-1)</b>	
LC50 - Fish [1]	> 95 mg/l Rainbow trout
LC50 - Fish [2]	> 91 mg/l Carp
LC50 - Other aquatic organisms [1]	96 mg/l Bluegill sunfish
LC50 - Other aquatic organisms [2]	> 101 mg/l Sheepshead minnow
EC50 - Crustacea [1]	> 96 mg/l
ErC50 algae	0.669 mg/l <i>Selenastrum capricornutum</i>
ErC50 other aquatic plants	0.77 mg/l <i>Anabaena flos-aquae</i>
Partition coefficient n-octanol/water (Log Kow)	-1.44 (pH 9)
Additional ecotoxicological information	Aute oral LD50 for bobwhite quail and mallard ducks >2250 mg/kg. Dietary LC50 (5d) for bobwhite quail and mallard ducks >5620 mg/kg diet. Bees (LD50, µg/bee) >3 (oral); >25 (contact). Worms LC50 (14d) for earthworms >848 mg/kg soil.

<b>sodium dodecyl sulphate (151-21-3)</b>	
LC50 - Fish [1]	29 mg/l (Equivalent or similar to OECD 203, 96 h, <i>Pimephales promelas</i> , Flow-through system, Fresh water, Experimental value, Lethal)
ErC50 algae	> 120 mg/l (DIN 38412-9, 72 h, <i>Scenedesmus subspicatus</i> , Static system, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	≤ -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.5 – 2.65 (log Koc, Calculated value)

<b>ammonium sulphate (7783-20-2)</b>	
LC50 - Fish [1]	53 mg/l (96 h, <i>Oncorhynchus mykiss</i> , Fresh water)
EC50 - Crustacea [1]	169 mg/l (48 h, <i>Daphnia magna</i> , Static system, Fresh water)
Partition coefficient n-octanol/water (Log Pow)	-5.1 (Experimental value, Equivalent or similar to OECD 107, 25 °C)

### 12.2. Persistence and degradability

<b>Prelude 750 WG (Sulfosulfuron 750 g/kg) (141776-32-1)</b>	
Persistence and degradability	No additional information available

<b>sodium dodecyl sulphate (151-21-3)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>ammonium sulphate (7783-20-2)</b>	
Persistence and degradability	Biodegradability in water: no data available.

### 12.3. Bioaccumulative potential

<b>Prelude 750 WG (Sulfosulfuron 750 g/kg) (141776-32-1)</b>	
Bioaccumulative potential	No additional information available

<b>Sulfosulfuron TC (141776-32-1)</b>	
Partition coefficient n-octanol/water (Log Kow)	-1.44 (pH 9)

# Prelude 750 WG (Sulfosulfuron 750 g/kg)

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### sodium dodecyl sulphate (151-21-3)

Partition coefficient n-octanol/water (Log Pow)	≤ -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.5 – 2.65 (log Koc, Calculated value)
Bioaccumulative potential	Not bioaccumulative.

### ammonium sulphate (7783-20-2)

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

## 12.4. Mobility in soil

### Prelude 750 WG (Sulfosulfuron 750 g/kg) (141776-32-1)

Mobility in soil	No additional information available
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### Sulfosulfuron TC (141776-32-1)

Mobility in soil	33 Source: HSDB
Partition coefficient n-octanol/water (Log Kow)	-1.44 (pH 9)

### sodium dodecyl sulphate (151-21-3)

Surface tension	25.2 mN/m (23 °C, 1 g/l, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow)	≤ -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.5 – 2.65 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

### ammonium sulphate (7783-20-2)

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

## 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.
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## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA




SANS	IMDG	IATA
<b>14.1. UN number</b>		
3077	3077	3077



# Prelude 750 WG (Sulfosulfuron 750 g/kg)

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according to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
<b>14.2. Proper Shipping Name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sulfosulfuron 750 g/kg)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sulfosulfuron 750 g/kg)	Environmentally hazardous substance, solid, n.o.s. (Sulfosulfuron 750 g/kg)
<b>14.3. Transport hazard class(es)</b>		
9	9	9
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
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
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197, A215
ERG code (IATA)	: 9L

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according to SANS 10234:2019 and SANS 11014:2010

### 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 : 10/09/2022

### 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.
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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.