



# Cymostar 760 WP (Cymoxanil 60 g/kg + Mancozeb 700 g/kg)

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8  
Issue date: 7/16/2024 Revision date: 7/16/2024 Supersedes: 7/16/2024 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

#### 1.1. GHS product identifier

Product form	: Mixture
Trade name	: Cymostar 760 WP
Type of product	: Fungicide
Product group	: End product

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended Use:	A wettable powder, organic preventative and curative fungicide for the control of downy mildew ( <i>Plasmopara viticola</i> ) on table and wine grapes and late blight ( <i>Phytophthora infestans</i> ) on potatoes
Restricted Use:	Only for commercial farm use. Not for use with any handheld equipment and/or in residential areas and aerial application.

#### 1.4. Supplier's detail

##### 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

#### 1.5. Emergency phone number

Emergency number	: 24 Hr Emergency Number: In case of poisoning, call the following number: Poison Information Helpline (24 hrs) 0861 555 777 Emergency Number: Disaster Management Centre Spill Tech 086 100 0366
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### SECTION 2: Hazard identification

#### 2.1. GHS classification of the substance/mixture and any national or regional information

##### 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
Serious eye damage/eye irritation, Category 2A	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects	: Suspected of damaging fertility or the unborn child,Harmful if inhaled,Harmful if swallowed,Harmful in contact with skin,May cause an allergic skin reaction,Causes serious eye irritation,Very toxic to aquatic life,Harmful to aquatic life with long lasting effects.
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### 2.2. GHS label elements, including precautionary statements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA)

: Warning

Hazard statements (GHS ZA)

: H302+H332 - Harmful if swallowed or if inhaled  
H313 - May be harmful in contact with skin  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H361 - Suspected of damaging fertility or the unborn child  
H400 - Very toxic to aquatic life  
H412 - Harmful 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..  
P203 - Obtain, read and follow all safety instructions before use.  
P261 - Avoid breathing dust.  
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.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective clothing, eye protection, face protection.  
P301+P317 - IF SWALLOWED: Get medical help.  
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.  
P337 + P317 – If eye irritation persists: Get medical help.  
P318 - IF exposed or concerned, get medical advice.  
P330 - Rinse mouth.  
P333+P317 - If skin irritation or rash occurs: Get medical help.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of container to an approved waste disposal plant.

### 2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

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### 3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Mancozeb, active ingredient	CAS-No.: 8018-01-7	≥ 70 – < 75	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. Not classified Repr. 2, H361 Aquatic Acute 1, H400
Cymoxanil, active ingredient	CAS-No.: 57966-95-7	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Sodium salt of naphthalene sulphonate formaldehyde condensate	CAS-No.: 68425-94-5	≥ 1 – < 5	Eye Irrit. 2, H319
Hexamethylenetetramine	CAS-No.: 100-97-0	≥ 1 – < 5	Skin Sens. 1, H317
Naphthalenesulfonic acids, branched and linear Bu derivs, sodium salts	CAS-No.: 939-707-2	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 STOT SE 3, H335

## SECTION 4: First aid measures

### 4.1. Description of necessary first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. 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 or rash 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/effect, acute and delayed

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

No specific antidote is available. Treat symptomatically and supportively when required. If large amounts have been ingested, perform gastric lavage and administer activated charcoal. Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) 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.

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### 5.2. Specific hazards arising from the chemical

- Fire hazard : No fire hazard.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective actions for fire-fighters

- Firefighting instructions : Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
Personal protection (Emergency response) : Wear respiratory protection, Wear protective gloves, Wear protective clothing, Wear eye protection, Face-shield



## SECTION 6: Accidental release measures

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

- General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

#### 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".  
Emergency procedures : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment. 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.

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

- For containment : Collect spillage.  
Methods for cleaning up : Mechanically recover the product. For release to land, stop any further release and spread of contamination, wash hard surfaces with detergent and water and absorb with suitable absorbent. Collect the spilled material any contaminated soil, water and absorbent then place in a waste container for proper disposal. Notify authorities if product enters sewers or public waters.  
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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Do not get in eyes, on skin, or on clothing.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  
Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store locked up.
Storage area	: Keep only in the original container. Store out of reach of unauthorised persons, children and animals.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: Food supplies. Water supplies.
Packaging materials	: Store always product in container of same material as original container.
Maximum storage period	: 2 years

## 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

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. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Yellow
Odour	: No data available
Odour threshold	: No data available
pH	: 5-8
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	: Not expected to have flammable properties.
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	: No data available

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Relative gas density	: No data available
Solubility	: No data available
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. Data relevant with regard to physical hazard classes (supplemental)

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)	: Inhalation:dust,mist: Harmful if inhaled.

#### Cymostar 760 WP

ATE ZA (oral)	1906.376 mg/kg bodyweight
ATE ZA (Dermal)	2505.882 mg/kg bodyweight
ATE ZA (dust, mist)	1.513 mg/l/4h
Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	Total content of ingredient(s) of unknown acute toxicity (Dermal) is > 10% Total content of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) is > 10%

#### Mancozeb (8018-01-7)

LD50 oral rat	> 2000 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)

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### Mancozeb (8018-01-7)

LC50 Inhalation - Rat	> 1.766 mg/l/4h (4 hours)
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### Cymoxanil (57966-95-7)

LD50 oral rat	300 – 2000 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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LC50 Inhalation - Rat	> 5.06 mg/l
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### Naphthalenesulfonic acids, branched and linear Bu derivs, sodium salts (939-707-2)

LD50 oral rat	1800 mg/kg
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LD50 dermal rabbit	3000 mg/kg
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LC50 Inhalation - Rat	4.08 mg/l
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### Mancozeb (8018-01-7)

LC50 - Fish [1]	< 1 mg/l (96 h, rainbow trout)
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EC50 - Crustacea [1]	< 1 mg/l (48 h, Daphnia magna)
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EC50 96h - Algae [2]	< 1 mg/l Selenastrum Capricornutum
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Additional data	Birds: Practically non-toxic to birds. Honeybees: Non toxic to bees. Earthworm LC50 (14d) Eisenia foetida > 1000 mg/kg soil
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### Cymoxanil (57966-95-7)

LC50 - Fish [1]	> 1 mg/l Danio rerio
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EC50 - Crustacea [1]	< 1 mg/l Daphnia
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EC50 72h - Algae [1]	< 1 mg/l Pseudokirchneriella subcapitata
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Additional data	Birds: Non-toxic to birds. Bees: Non-toxic to bees. Earthworm: LC50 (14d) Eisenia foetida > 1000 mg/kg soil.
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### 12.2. Persistence and degradability

#### Cymostar 760 WP

Persistence and degradability	No data available
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### Mancozeb (8018-01-7)

Persistence and degradability	Not rapidly biodegradable
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### Cymoxanil (57966-95-7)

Persistence and degradability	Not rapidly biodegradable
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## 12.3. Bioaccumulative potential

### Cymostar 760 WP

Bioaccumulative potential	No data available
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### Hexamethylenetetramine (100-97-0)

Partition coefficient n-octanol/water (Log Kow)	-4.15 – -2.13
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Bioaccumulative potential	Not bioaccumulative.
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### Mancozeb (8018-01-7)

Partition coefficient n-octanol/water (Log Pow)	1.38
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Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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### Cymoxanil (57966-95-7)

Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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## 12.4. Mobility in soil

### Cymostar 760 WP

Mobility in soil	No data available
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### Cymoxanil (57966-95-7)

Mobility in soil	Potential for mobility in soil is high
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### Mancozeb (8018-01-7)

Surface tension	Not applicable (water solubility < 1 mg/l)
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Mobility in soil	Low potential for mobility in soil
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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

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information




In accordance with SANS / IMDG / IATA



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SANS	IMDG	IATA
<b>14.1. UN number</b>		
3077	3077	3077
<b>14.2. UN Proper Shipping Name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains cymoxanil and mancozeb)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains cymoxanil and mancozeb)	Environmentally hazardous substance, solid, n.o.s. (contains cymoxanil and mancozeb)
<b>14.3. Transport hazard class(es)</b>		
9	9	9
		
<b>14.4. Packing group, if applicable</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  
 Stowage and handling (IMDG) : SW23

#### 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

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CAO packing instructions (IATA)	: 956
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 IMO instructions

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

#### 15.1.1. Occupational health and safety act, 1993

##### Prohibited Hazardous Chemical Agents

Not regulated

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

No additional information available

## SECTION 16: Other information

Issue date	: 16/07/2024
Revision date	: 16/07/2024
Supersedes	: 16/07/2024

### Full text of H-statements:

H302	Harmful if swallowed
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), South Africa (HCA)

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.