

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	: Substance
Trade name	: Gyro 500 SC (propyzamide 500 g/l)
Type of product	: Herbicide
CAS-No.	: 23950-58-5
Product group	: End product

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

Use of the substance/mixture	: A suspension concentrate herbicide for use against annual winter grasses and certain broadleaf weeds in Canola, Grapes and orchards (as indicated) in the winter rainfall region.
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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 (dermal), Category 5	H313
Carcinogenicity, Category 2	H351
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
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

Hazard statements (GHS ZA)

: H313 - May be harmful in contact with skin  
H351 - Suspected of causing cancer.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H401 - Toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects.

# Gyro 500 SC (propyzamide 500 g/l)

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

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.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapours, spray.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of container to an approved waste disposal plant.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Suspected of causing cancer, May cause damage to organs through prolonged or repeated exposure, Harmful in contact with skin, Very toxic to aquatic life with long lasting effects, Toxic to aquatic life

## SECTION 3: Composition/information on ingredients

### 3.1. Mixtures

Name : Gyro 500 SC (propyzamide 500 g/l)  
CAS-No. : 23950-58-5  
Product identifiers: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Propyzamide TC	CAS-No.: 23950-58-5	$\geq 50 - < 55$	Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
Water	CAS-No.: 7732-18-5	$\geq 40 - < 45$	Acute Tox. Not classified (Oral)
Sodium salt of naphthalene sulfonate condensate	CAS-No.: 9084-06-4	$\geq 1 - < 5$	Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal)
Ethylene glycol	CAS-No.: 107-21-1	$\geq 1 - < 5$	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute Not classified
Magnesium aluminium silicate	CAS-No.: 1327-43-1	$\geq 0.1 - < 1$	Acute Tox. Not classified (Oral) Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute Not classified
Silicone Oil	CAS-No.: 63148-62-9	$\geq 0.1 - < 1$	Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Eye Irrit. 2A, H319 Aquatic Acute 3, H402

Full text of H-statements: see section 16

# Gyro 500 SC (propyzamide 500 g/l)

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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	: 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.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: 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 skin contact	: May be harmful in contact with skin.
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#### 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. Carbon dioxide.
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

Hazardous decomposition products in case of fire	: Decomposes in fire, and generates dense black smoke containing hazardous products of combustion. Exposure to these decomposition products may be a health hazard.
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#### 5.3. Advice for firefighters

Firefighting instructions	: Remove spectators from surrounding area. Remove container from fire area if possible without risk. Eliminate all ignition sources in immediate area. Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours. Keep upwind.
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

No additional information available

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

Emergency procedures	: Ventilate spillage area. Do not breathe 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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# Gyro 500 SC (propyzamide 500 g/l)

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

### 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.

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

- For containment : Collect spillage.
- Methods for cleaning up : For small liquid spills, soak up with lime, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.
- 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 : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours, spray. Do not get in eyes, on skin, or on clothing.
- 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 locked up. Store in a well-ventilated place. Keep cool.
- Storage area : Keep only in the original container. Store in a dry 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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ethylene glycol (107-21-1)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Ethylene glycol
OEL TWA	50 mg/m <sup>3</sup> (V: vapour fraction) 100 mg/m <sup>3</sup> (V: vapour fraction)
OEL STEL	20 mg/m <sup>3</sup> (H: aerosol only)
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Ethylene glycol (Ethane-1,2-diol; 1,2-Dihydroxyethane)
OEL TWA	20 mg/m <sup>3</sup>
OEL STEL	40 mg/m <sup>3</sup>
Regulatory reference	Government Notice No. R 904

### 8.2. Appropriate engineering controls

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

# Gyro 500 SC (propyzamide 500 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

### 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 insufficient ventilation, wear suitable respiratory equipment

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	: Liquid
Appearance	: No data available
Colour	: Brown.
Odour	: No data available
Odour threshold	: No data available
pH	: 6.99
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.15
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
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	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available

### 9.2. Other information

No additional information available

# Gyro 500 SC (propyzamide 500 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

### 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)	: Not classified
Acute toxicity (dermal)	: May be harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

#### Gyro 500 SC (propyzamide 500 g/l) (23950-58-5)

Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	4% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 48.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 99.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
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#### Propyzamide TC (23950-58-5)

LD50 oral rat	8350 mg/kg
LD50 oral	5620 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 2.1 mg/l/4h

#### Magnesium aluminium silicate (1327-43-1)

LD50 oral rat	16000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 2.08 mg/l Source: ECHA

#### Silicone Oil (63148-62-9)

LD50 oral rat	> 17000 mg/kg Source: National Library of Medicine
LD50 dermal rabbit	> 2000 mg/kg Source: National Library of Medicine

#### Sodium salt of naphthalene sulfonate condensate (9084-06-4)

LD50 oral rat	3800 mg/kg
LD50 dermal rabbit	> 16000 mg/kg

# Gyro 500 SC (propyzamide 500 g/l)

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

### Water (7732-18-5)

LD50 oral rat	90000 mg/kg
Skin corrosion/irritation	: Not classified pH: 6.99
Serious eye damage/irritation	: Not classified pH: 6.99
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### Propyzamide TC (23950-58-5)

LC50 - Fish [1]	> 4.7 mg/l Rainbow trout
LC50 - Fish [2]	> 5.1 mg/l Carp
LC50 - Other aquatic organisms [1]	> 4.6 mg/l Daphnia
ErC50 algae	2.88 mg/l Selenastrum capricornutum
Partition coefficient n-octanol/water (Log Kow)	3.27
Additional ecotoxicological information	Birds: Acute oral LD50 for Japanese quail 8770, mallard ducks >14 mg/kg. Dietary LC50 (8d) for bobwhite quail and mallard ducks >10000 mg/kg diet. Bees: (LD50, ug/bee) >100. Worms LC50 for earthworms >346 mg/kg soil.

### Ethylene glycol (107-21-1)

LC50 - Fish [1]	41000 mg/l Trout (96h)
LC50 - Fish [2]	34250 mg/l Bluegill sunfish
LC50 - Other aquatic organisms [1]	46300 mg/l Water flea
Partition coefficient n-octanol/water (Log Pow)	-1.4

### Magnesium aluminium silicate (1327-43-1)

LC50 - Fish [1]	10000 mg/l Source: ECHA
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### Silicone Oil (63148-62-9)

LC50 - Fish [1]	37.79 mg/l Source: The ECOTOXicology database
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### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow)	-1.38
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### 12.2. Persistence and degradability

### Gyro 500 SC (propyzamide 500 g/l) (23950-58-5)

Persistence and degradability	No additional information available
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# Gyro 500 SC (propyzamide 500 g/l)

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

### Ethylene glycol (107-21-1)

Persistence and degradability	Long term degradation products may arise.
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### 12.3. Bioaccumulative potential

#### Gyro 500 SC (propyzamide 500 g/l) (23950-58-5)

Bioaccumulative potential	No additional information available
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#### Propyzamide TC (23950-58-5)

Partition coefficient n-octanol/water (Log Kow)	3.27
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#### Ethylene glycol (107-21-1)

Partition coefficient n-octanol/water (Log Pow)	-1.4
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#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow)	-1.38
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### 12.4. Mobility in soil

#### Gyro 500 SC (propyzamide 500 g/l) (23950-58-5)

Mobility in soil	No additional information available
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#### Propyzamide TC (23950-58-5)

Partition coefficient n-octanol/water (Log Kow)	3.27
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#### Ethylene glycol (107-21-1)

Partition coefficient n-octanol/water (Log Pow)	-1.4
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#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow)	-1.38
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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.
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## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA




SANS	IMDG	IATA
<b>14.1. UN number</b>		
3082	3082	3082
<b>14.2. Proper Shipping Name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains propyzamide 500 g/l)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains propyzamide 500 g/l)	Environmentally hazardous substance, liquid, n.o.s. (contains propyzamide 500 g/l)
<b>14.3. Transport hazard class(es)</b>		
9	9	9



# Gyro 500 SC (propyzamide 500 g/l)

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
		
<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 L
Limited quantities (SANS)	: 5 L
Packagings, large packagings and IBCs Packing instructions (SANS)	: P001, IBC03, LP01
Packagings, large packagings and IBCs Special packing instructions (SANS)	: PP1
Portable tank and bulk containers instructions (SANS)	: T4
Portable tank and bulk container special provisions (SANS)	: TP1, TP29

#### IMDG

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
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)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, 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

# Gyro 500 SC (propyzamide 500 g/l)

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

### 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 : 16/09/2022

Full text of H-statements	
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very 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.