

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: FarmAg Buprofezin 500 WP
Type of product	: Insecticide
CAS-No.	: 69327-76-0
Product group	: End product

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

Use of the substance/mixture	: A wettable powder stomach and contact insecticide with insect growth regulant activity for the control of mealybug in citrus.
------------------------------	---------------------------------------------------------------------------------------------------------------------------------

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 (inhalation:dust,mist) Category 4	H332
Serious eye damage/eye irritation, Category 2A	H319
Specific target organ toxicity – Repeated exposure, Category 2	H373
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	:	Fatty alcohol polyoxyethylene ether, Buprofezin 98% TC
Hazard statements (GHS ZA)	:	H302+H332 - Harmful if swallowed or if inhaled H319 - Causes serious eye irritation. H373 - May cause damage to organs (slight muscular incoordination and a slightly enlarged

FarmAg Buprofezin 500 WP

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Precautionary statements (GHS ZA)

abdomen) through prolonged or repeated exposure (oral).
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.
P260 - Do not breathe 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.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
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 doctor if you feel unwell.
P314 - Get medical attention if you feel unwell.
P330 - Rinse mouth.
P337+P313 - If eye irritation persists: Get medical attention.
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

: May cause damage to organs (Respiratory tract, slight muscular incoordination and a slightly enlarged abdomen) through prolonged or repeated exposure (oral), Harmful if inhaled, Harmful in contact with skin, Causes serious eye irritation, Very 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
Buprofezin 98% TC	CAS-No.: 69327-76-0	≥ 50 – < 55	Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Fatty alcohol polyoxyethylene ether	CAS-No.: 37335-03-8	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411

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 the victim to fresh air. If not breathing, give the victim artificial respiration, preferably mouth-to-mouth. Get medical attention.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off contaminated clothing.

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.

FarmAg Buprofezin 500 WP

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

First-aid measures after ingestion : Call physician or the poison control center. Drink 1-2 glasses of water. Induce vomiting by touching the back of the throat with the finger, or if available, by administering syrup of ipecac. If the person is unconscious, do not give the victim artificial respiration, preferably mouth-to-mouth. Get medical attention.

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

Symptoms/effects after inhalation : Inhalation of this product is harmful. The active ingredient is not known to be a significant irritant to the respiratory system, but excessive dust inhalation of the inert ingredient in a controlled area may cause irritation and congestion of the upper respiratory tract.

Symptoms/effects after skin contact : Absorption through the skin is harmful. The product is a slight skin irritant but not a skin sensitive.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Slight muscular incoordination and a slightly enlarged abdomen.

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.

5.2. Special hazards arising from the substance or mixture

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) : Wear respiratory protection, Wear protective gloves, Wear protective clothing



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

Protective equipment : Dust cloud production: self-contained breathing apparatus (EN 136 + EN 137).

Emergency procedures : Ventilate spillage area. Do not breathe dust, spray. 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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

FarmAg Buprofezin 500 WP

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

- Methods for cleaning up : Carefully sweep up the spilled product, avoiding formation of a dust cloud, and place it in a suitable container. Seal the container. The area can be washed with water to remove the last traces of the product, but keep out of watercourses or sewers. Inform authorities immediately if contamination occurs.
- 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 : Do not breathe dust, spray. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

kaolin (1332-58-7)

South Africa - Occupational Exposure Limits (Airborne Pollutants)

Local name	Kaolin
OEL TWA	3 mg/m ³ respirable particulate
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.

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

FarmAg Buprofezin 500 WP

Safety Data Sheet

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	: Powder.
Colour	: Grey. White. Yellow.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 8 – 10,5
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	: 0.96
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: soluble in water.
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

FarmAg Buprofezin 500 WP

Safety Data Sheet

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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

FarmAg Buprofezin 500 WP (69327-76-0)	
ATE ZA (oral)	1948.321 mg/kg bodyweight
ATE ZA (dust, mist)	1.5 mg/l/4h
Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	47% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 49% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Buprofezin 98% TC (69327-76-0)	
LD ₅₀ oral rat	2198 mg/kg Male
LD ₅₀ oral	2355 mg/kg Female rat
LD ₅₀ dermal rat	> 5000 mg/kg
LC ₅₀ Inhalation - Rat (Dust/Mist)	> 4.57 mg/l

Skin corrosion/irritation : Slightly irritating
pH: 8 – 10.5
Serious eye damage/irritation : Moderately irritating
pH: 8 – 10.5
Respiratory or skin sensitisation : Not a skin sensitizer
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : May cause damage to organs (slight muscular incoordination and a slightly enlarged abdomen) through prolonged or repeated exposure (oral).

Buprofezin 98% TC (69327-76-0)	
	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

FarmAg Buprofezin 500 WP (69327-76-0)	
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.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Buprofezin 98% TC (69327-76-0)	
LC ₅₀ - Fish [1]	0.527 mg/l Carp

FarmAg Buprofezin 500 WP

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Buprofezin 98% TC (69327-76-0)	
LC ₅₀ - Fish [2]	0.33 mg/l Rainbow Trout
EC ₅₀ - Crustacea [1]	> 0.42 mg/l
ErC ₅₀ algae	> 2.1 mg/l
Partition coefficient n-octanol/water (Log Pow)	4.3
Additional ecotoxicological information	Birds: LD ₅₀ = >2 000 mg/kg. Bees: Contact LD ₅₀ : > 200 µg/bee (48 hours); > 163.5 µg/bee (48 hours)

12.2. Persistence and degradability

FarmAg Buprofezin 500 WP (69327-76-0)	
Persistence and degradability	No additional information available

Buprofezin 98% TC (69327-76-0)	
Persistence and degradability	DT ₅₀ (days): 80-104 days at 25°C.

kaolin (1332-58-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

FarmAg Buprofezin 500 WP (69327-76-0)	
Bioaccumulative potential	No additional information available

Buprofezin 98% TC (69327-76-0)	
Partition coefficient n-octanol/water (Log Pow)	4.3

kaolin (1332-58-7)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

FarmAg Buprofezin 500 WP (69327-76-0)	
Mobility in soil	No additional information available

Buprofezin 98% TC (69327-76-0)	
Partition coefficient n-octanol/water (Log Pow)	4.3

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.




FarmAg Buprofezin 500 WP

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
3077	3077	3077
14.2. Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains buprofezin 500 g/kg)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains buprofezin 500 g/kg)	Environmentally hazardous substance, solid, n.o.s. (contains buprofezin 500 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

FarmAg Buprofezin 500 WP

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

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

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 : 30/08/2022

Full text of H-statements	
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.