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**REG NO:** 2000/010819/07 **VAT NO:** 4120189206

# **FLUZOXY** L10731 (Act 36 of 1947)

Product name:	FLUZOXY
Other means of identification:	Azoxystrobin 125 g/L, Flusilazole 125 g/L SE
Chemical Name:	Azoxystrobin(IUPAC): methyl (E)-2-{2-[6-(2-cyano-
	phenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate
	Flusilazole (IUPAC): 1-[[bis(4-
	fluorophenyl)(methyl)silyl]methyl]-1H-1,2,4-triazole, bis(4-
	fluorophenyl)(methyl)(1 <i>H</i> -1,2,4-triazol-1-ylmethyl)silane
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	3082
Distributed by:	MERIDIAN AGRITECH
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	TEL 011 8228509 FAX 0866901386
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Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100
	TYGERBERG:021 931 6129
	RED CROSS 021 689 5227
	RAPID SPILL RESPONSE 0800 775 3305
	GRIFFON POISON CENTRE: 082 446 8946
2) HAZARDS IDENTIFICATION:	·
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4
	Acute Toxicity (Inhalation) Category 3
	Eye Irritation Category 1
	Carcinogenicity Category 2
	Reproductive Toxicity Category 1B
	Aquatic Acute Category 1 Aquatic Chronic Category 1
Label Elements:	Pictograms:
Globally Harmonized System, EU (GHS):	AV.
	¥3 1
	Signal word: Harmful
	Hazard Statements:
	H302: Harmful if swallowed.
	H319: Causes serious eye irritation.
	H331: Toxic if inhaled.
	H351: Suspected of causing cancer.
	<b>H360d:</b> May damage fertility or the unborn child.

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.

## **Precautionary Statements:**

P201: Obtain special instructions before use.

**P202:** Do not handle until all safety precautions have been read and understood.

P260: Do not breathe mist/fumes/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

**P263:** Avoid contact during pregnancy or while nursing.

**P270:** Do not eat, drink or smoke when using the 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 gloves, protective clothing, eye protection

**P321:** Specific treatment (See First aid measures on this label)

**P362+P364:** Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

## According to Directive 67/548/EEC No. 1272/2008 [CLP]

## Hazard symbols:

Xn: Harmful Xi: Irritant

N: Dangerous for the environment.

T: Toxic to aquatic organism.

# R-phrase(s):

R22: Harmful if swallowed.

R23: Toxic by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin. R51/53: Toxic to aquatic organisms may cause long-term

adverse effects in the aquatic environment.

## S-phrase(s):

**\$1/2:** Keep locked up and out of reach of children.

**\$13:** Keep away from food, drink and animal feeding stuffs.

S23: Do not breathe vapour/spray.

**\$24/25:** Avoid contact with the skin and eyes.

**S36/37/39:** Wear suitable protective clothing, gloves and eye/face protection.

**S46:** If swallowed, seek medical advice immediately and show this label.

**S61:** Avoid release to the environment. Refer to special instructions/safety data sheets.

# 3) COMPOSITION / INFORMATION ON INGREDIENTS:

#### 3.1 Substances:

Not applicable

# 3.2 Mixtures:

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Azoxystrobin	125 g/L	131860-33-8		Acute Tox Cat 3 (H331)	T, N; R23,
			Aquatic Acute Cat 1 (H400)	R50/53; S1/2, S227, S45,	
			Aquatic Chronic Cat 1 (H410)	S60, S61	

Flusilazole	125 g/L	85509-19-9		Acute Tox Cat 4 (H302)	T, N; 22, R40,
				Carc Cat 2 (H351)	R61, R51/53; S45, S53, S61
				Repr. Cat 1B (H360D)	
				Aquatic Chronic 2 (H411)	
Denatonium benzoate in Monoethylene glycol	50 g/L		906-307-4	Acute Tox Cat. 4 (H302)	
Acetophenone	50 g/L	98-86-2	202-708-7	Acute Tox Cat. 4 (H302)  Eye Irrit. Cat. 1 (H319)	

# 4) FIRST AID MEASURES: **Description of First-Aid Measures:** Inhalation: Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is laboured oxygen should be supplied by qualified personnel only. Seek medical assistance immediately. Skin contact: Remove contaminated clothing and footwear. Wash skin gently but thoroughly with plenty of water and non-abrasive soap for 15 to 20 minutes. Seek medical assistance if irritation persists. Eye contact: Immediately flush eyes with a stream of gently flowing water for 15 minutes, holding eyelids open. Remove contact lenses, if present, after the first 5 minutes. Seek medical assistance if irritation occurs. Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting, unless instructed to do so by a physician. If vomiting occurs, keep head lower than hips to prevent aspiration. Rinse mouth thoroughly with water if person is conscious and alert. Plenty of water may be given to drink if able to swallow. For advice, contact the National Poisons Centre. Seek medical assistance immediately. Most important symptoms and effects, both acute and None known. delayed: Indication of any immediate medical attention and No specific antidote known. Treat symptomatically and special treatment needed: supportively.

# 5) FIRE-FIGHTING MEASURES:

**Unsuitable Extinguishing Media:** 

Extinguishing Media:

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Specific Hazards arising from the substance/mixture:

Fire Fighting:

Fine water spray, foam, carbon dioxide, dry chemical powder.

Do not use high volume water jet, due to contamination risk.

Dust/air mixture may be explosive in the presence of an ignition source. Fire may produce irritating and/or toxic vapors, mists or other products of combustion.

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.

Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.

# Contain firefighting water for later disposal. Avoid the Protective clothing: accumulation of polluted run-off from site. Full protective clothing and self-contained breathing apparatus. 6) ACCIDENTAL RELEASE MEASURES: Do not breathe in spray or fumes. Avoid contact with skin and Personal precautions, protective equipment and emergency procedures: eyes. For personal protection see Section 8. **Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow to enter drains or watercourses. If contamination of water courses is unavoidable, report to the Police and the Department of Water/Environmental Affairs immediately. Considered a marine pollutant. Methods and material for containment and cleaning up: Wear protective clothing and avoid breathing mist/vapour. Clear area of unprotected personnel. Ventilate area. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical. 7) HANDLING & STORAGE: **Precautions for Safe Handling:** Harmful if swallowed. Avoid skin and eye contact and inhalation of spray mist. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. Do not apply directly to areas where surface water is present. Water used to clean equipment must be disposed of correctly to avoid contamination. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. Conditions for Safe Storage, including any Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. incompatibilities: Keep away from animals, children or uninformed persons. Store away from heat or open flames. 8) EXPOSURE CONTROL / PERSONAL PROTECTION: **Appropriate Engineering Controls:** It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations. **Control Parameters: Occupational exposure limits:** NA PERSONAL PROTECTIVE EQUIPMENT: Consult supplier to confirm that the equipment is suitable. Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Wear long-sleeved shirt and long pants, chemical-resistant footwear. Wash contaminated clothing and clean protective equipment before re-use.

Respiratory protection:

Gloves:  Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.  9) PHYSICAL & CHEMICAL PROPERTIES:  Form:  Liquid  Colour:  Cream  Odour:  Characteristic odour  Solubility:  Suspends and emulsifies in water  PH:  G-8.5  Odour threshold:  Melting point / Freezing point Initial boiling point and boiling range Flash point:  Evaporation rate:  Not available  Flammability (solid, gas)  Upper/ lower flammability or explosive limits:  Not available  Vapour pressure:  Not available  Relative density:  Not available  Auto-ignition temperature:  Not available  Vapour pressure:  Not available
Eye protection:  Emergency eye wash:  The use of safety goggles with side shields is recommended.  Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alteriative within the immediate work area for emergency use.  9) PHYSICAL & CHEMICAL PROPERTIES:  Form:  Liquid  Colour:  Cream  Odour:  Characteristic odour  Solubility:  Suspends and emulsifies in water  PH:  6-8.5  Odour threshold:  Melting point / Freezing point  Not available  Melting point / Freezing point  Not available  Initial boiling point and boiling range  Flash point:  Not available  Flammability (solid, gas)  Upper/ lower flammability or explosive limits:  Vapour pressure:  Vapour flammability or explosive limits:  Not available  Partition coefficient: n-octanol/water  Auto-ignition temperature:  Not available
The use of safety goggles with side shields is recommended.  Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.  9) PHYSICAL & CHEMICAL PROPERTIES:  Form:  Liquid  Colour:  Cream  Odour:  Characteristic odour  Solubility:  Suspends and emulsifies in water  PH:  6-8.5  Odour threshold:  Melting point / Freezing point  Initial boiling point and boiling range  Not available  Melting point in the immediate work area for emergency use.  Not available  Flash point:  Not available  Flammability (solid, gas)  Upper/ lower flammability or explosive limits:  Vapour pressure:  Not available  Not available
Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.  9) PHYSICAL & CHEMICAL PROPERTIES:  Form:  Liquid  Colour:  Cream  Odour:  Characteristic odour  Solubility:  Suspends and emulsifies in water  PH:  6-8.5  Odour threshold:  Melting point / Freezing point  Initial boiling point and boiling range  Flash point:  Evaporation rate:  Not available  Flammability (solid, gas)  Upper/ lower flammability or explosive limits:  Vapour pressure:  Vapour density:  Relative density:  Partition coefficient: n-octanol/water  Auto-ignition temperature:  Viscosity:  Not available  Vapour density:  Not available  Viscosity:  Not available
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Colour: Cream Characteristic odour Solubility: Suspends and emulsifies in water  pH: 6-8.5  Odour threshold: Melting point / Freezing point Initial boiling point and boiling range Not available Initial boiling point and boiling range Not available Flash point: Evaporation rate: Not available Flammability (solid, gas) Not flammable Upper/ lower flammability or explosive limits: Not explosive Vapour pressure: Not available Vapour density: Not available Relative density: Partition coefficient: n-octanol/water Auto-ignition temperature: Not available Viscosity: Not available Viscosity: Not available Viscosity: Stable under normal conditions. When stored appropriately this product should show no significant degradation for 2 years from the date of
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significant degradation for 2 years from the date of
Possibility of hazardous reactions:  None known.
Conditions to avoid: Protect from sunlight, open flames and sources of heat.
Incompatible materials:  Avoid contact with strong oxidizing agents and strong acids.
Hazardous decomposition product(s):  Dust/air mixture may be explosive in the presence of an ignition source. Fire may produce irritating and/or toxic vapors, mists or other products of combustion.
11) TOXICOLOGICAL INFORMATION:
Acute Toxicity:  Oral:  LD <sub>50</sub> > 2000 mg/kg, cut-off value 2500 mg/kg
Dermal: $ LD_{50} > 2000 \text{ mg/kg}, \text{ cut-off value } 2500 \text{ mg/kg} $ $ LD_{50} > 2000 \text{ mg/kg} $ $ LC_{50} < 4.53 \text{ mg/L} $

Skin Corrosion/Irritation:	Not an irritant
Serious Eye Damage/Irritation:	Not an irritant
Respiratory or Skin Sensitization:	Not a sensitizer
Germ Cell Mutagenicity:	Azoxystrobin: Technical material is not mutagenic.
	Flusilazole: Studies to assess gene mutation, chromosomal aberration, or unscheduled DNA synthesis were clearly negative.
Carcinogenicity:	Azoxystrobin: Technical material is not carcinogenic.
	Flusilazole: There was no NOAEL for systemic toxicity; the NOAEL for oncogenicity was 14.8 mg/kg b.w per day when groups of 65 male and 65 female Crl:CD(SD)BR rats received diets containing technical-grade Flusilazole (purity, 95%) at doses of 0,125, 375, or 750 ppm, equal to 0, 5.03, 14.8, and 30.8 mg/kg b.w per day for males and 0, 6.83, 20.5, and 45.6 mg/kg b.w per day for females, for two years
Reproductive Toxicity:	May damage fertility or the unborn child.
STOT-SE:	No data available.
STOT-RE:	No data available.
Aspiration Hazard:	No data available.
12) ECOLOGICAL INFORMATION:	
Azoxystrobin:	

Persistence: Azoxystrobin and its degradates have low to moderate mobility in soil and low potential for bioaccumulation; typical  $K_{oc}$  c. 500.

Ecotoxicity: Azoxystrobin Birds:	Acute oral LD <sub>50</sub> for mallard ducks and bobwhite quail >2000 mg/kg. LC <sub>50</sub> (5 d) for bobwhite quail and mallard ducks >5200 mg/kg diet.
Fish:  Daphnia:  Algae: Worms: Bees:	LC <sub>50</sub> (96 h) for rainbow trout 0.47, bluegill sunfish 1.1, carp 1.6, sheepshead minnows 0.66 mg/l. For degradate R234886, LC <sub>50</sub> >150 mg/l. EC <sub>50</sub> (48 h) 80 $\mu$ g/l. EC <sub>50</sub> for degradates: R234886 >180, R401553 >50, R402173 >50 mg/l. EC <sub>50</sub> (120 h) for Selenastrum capricornutum 0.12 mg/l. LC <sub>50</sub> (14 d) for earthworms 283 mg/kg. (oral) >25 $\mu$ g/bee; (contact) >200 $\mu$ g/bee.
Ecotoxicity: Flusilazole Birds: Fish:  Daphnia: Bees:	Acute oral LD50 for mallard ducks > 1590 mg/kg LC50 (96h) Rainbow trout 1.2 mg/L, Bluegill sunfish 1.7 mg/L. LC50 (48h) 3.4 mg/L. LD50 > 150 μg/bee
Persistence and Degradability:	Azoxystrobin: Rapidly degraded in soil. Flusilazole: Average DT50 95 days.
Bio-accumulative Potential:	Azoxystrobin: low potential for bioaccumulation.
Mobility in Soil:	Azoxystrobin: low to moderate mobility in soil; typical K <sub>oc</sub> <i>c</i> . 500.
13) DISPOSAL CONSIDERATIONS:	
Waste Disposal:	In accordance with local and national regulations.

	1
	Open dumping or burning of this pesticide is prohibited. Do not re-use or reprocess waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.
Container Disposal:	Refer to the product label for instructions.
	If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.
	Do not transport if this container is damaged or leaking.
14) TRANSPORTATION INFORMATION:	
Road Transport ADR / IRD:	UN NUMBER: 3082 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin, Flusilazole) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Maritime Transport IMDG / IMO:	UN NUMBER: 3082 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin, Flusilazole) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Marine Pollutant Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Air Transport ICAO / IATA:	UN NUMBER: 3082 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin, Flusilazole) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No transport in bulk according to the IBC Code.
15) REGULATORY INFORMATION:	<u> </u>
Safety, health and environmental regulations/legislation specific for the substance/mixture:	For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
16) OTHER INFORMATION:	<u> </u>
All information and instructions provided in this Safety Data Sh technical knowledge at the date indicated on the present SDS	

This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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Date of issue: 11/10/2019

# Abbreviations and acronyms:

- 1. CAS number: Chemical Abstracts Service number.
- 2. CLP: Classification, Labelling, Packaging.
- 3. LD<sub>50</sub>: Lethal Dose for 50% of the test population.
- 4. LC<sub>50</sub>: Lethal Concentration for 50% of the test population.
- DT<sub>50</sub>: Half-life.
- GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).

## Literature References:

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals