

FARM-AG INTERNATIONAL (Pty) Ltd

P.O. Box 1523, Durban 4000

Head Office : 61 Marshall Dr., Old Mill Industrial Park, Mount Edgecombe **South Africa**

Registration Number: 2005/011761/07

Tel + 27 31 003 3486 • Fax + 27 31 502 5825

1. PRODUCT/COMPANY INFORMATION

Product Name: FLUROXYPYR 200 EC
Product Use: Herbicide
Effective Date: June 2014
Revision Date: September 2017

24 Hr Emergency Number: 082 771 2712
In case of poisoning:
 Poison Information Centre: 082 446 8946
 Tygerberg Hospital: (021) 931 6129
 Poison Emergency Enquiries (021) 689 5227
In case of Spillage:
 HAZMAT: 0800 147 112

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: Fluroxypyr
Chemical Name: 4-amino-3,5-dichloro-6-fluoro-2-pyridyloxyacetic acid (IUPAC)
Chemical family: pyridinecarboxylic acid
Use: Herbicide with preventative action.

Formulation: Fluroxypyr 200 g/l
 Emulsifiable concentrate

Hazardous ingredients of toxicological concern:

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
Fluroxypyr	Harmful, irritant	20%

Symbol: Xn, Xi
Indication of Danger: Harmful, irritant

RISK-PHRASE(S) R10, R36, R38 R65**SECTION 3 - HAZARD IDENTIFICATION**

Flammable.

May cause eye irritation and corneal injury. May cause skin irritation, even a burn.

Repeated contact may cause drying or flaking of the skin.

Ingestion:

Harmful, May cause lung damage if swallowed.

Cancer information:

Fluroxypyr did not cause cancer in laboratory animals.

Teratology (Birth defects):

1-Methyl-2-pyrrolidinone caused toxic effects to the foetus in laboratory animals at high dose levels with either mild or undetectable maternal toxicity. Fluroxypyr did not cause birth defects; however, in laboratory animals, other toxic effects to the foetus have been seen.

Reproductive effects:

Fluroxypyr did not interfere with reproduction in laboratory animal studies.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS**Inhalation:**

Move to fresh air. Seek medical attention immediately.

Skin contact:

Take off contaminated clothing, goggles, and respirator. If skin irritation persists, call a physician. Wash off with soap and plenty of water.

Eye contact:

Flush immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation exists.

Ingestion:

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Do not induce vomiting. Obtain medical attention. If swallowed, seek medical advice immediately and show this container or label.

Note to Physician:

There is no antidote. The decision of whether to induce vomiting or not should be made by a physician. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 - FIRE-FIGHTING MEASURES

Fire hazard and explosion hazard:

May decompose on heating to give toxic or irritating fumes.

Extinguishing agents:

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray as a fog can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire-fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Fire fighting:

Wear full protective clothing, goggles and respirator. Call fire brigade for all but small but immediately controllable fires. Keep containers cool by spraying with water.

Personal protective equipment:

Fire-fighters and others that may be exposed should wear full protective impervious clothing, including gloves and eye protection, and self-contained breathing apparatus. Contact with the fumes and vapours should be avoided by staying upwind. Clean all clothing before re-use. Severely contaminated clothing cannot be adequately decontaminated, and must be disposed as a hazardous waste. Shower with soap and water after contact with this product.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

For personal protection see Section 8.

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.

Occupational spill:

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.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling:

Wear suitable gloves, face shield and overalls, when handling the concentrate. Do not eat, drink or smoke. Wash hands and exposed skin before meals and after work. Wash all concentrate from skin or eyes immediately. Do not breathe spray.

Storage:

Keep in original container, tightly closed, and in a safe place. Keep out of the reach of children. Keep in a cool, dry place. Protect from frost. Avoid contact with skin and eyes.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:**Respirator:**

Respirator may be needed only in exceptional circumstances or if advised to do so when dealing with the concentrate or spray.

Clothing:

Protective overalls or chemical resistant suit to protect from contamination when dealing with concentrate or spray.

Gloves:

Users should wear rubber gloves or other plastic material gloves to protect from contamination when dealing with concentrate or spray.

Eye protection:

Safety glasses with side-shields should be used when dealing with the concentrate or spray.

Emergency eye wash: 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.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid.
Odour:	Solvent type odour
Flash point:	47°C
Specific gravity:	Not Applicable
Boiling point:	Not determined
pH:	5.5
Solubility:	Miscible in all proportions

SECTION 10 - STABILITY AND REACTIVITY**Storage Stability:**

The product is stable at room temperature in normal warehouse conditions in original packaging.

Stability:

Avoid extreme heat, direct contact with sunlight and incompatible materials.

Incompatibility:

Avoid oxidising agents. Avoid also strong acids and strong bases.

SECTION 11 - TOXICOLOGICAL INFORMATION**Acute Effects:**

Eyes:	None irritant to eyes. Causes substantial but temporary irritation, redness and pain.
Skin:	Brief contact is essentially mild-irritating to skin. Prolonged or repeated exposure may cause skin irritation, even a burn.
Oral LD₅₀:	rat: > 2000 mg/kg
Dermal LD₅₀:	> 4000 mg/kg
Inhalation:	Inhalation LC ₅₀ is >5.1 mg/L for 4 hours..
Mutagenicity:	For fluroxypr, in-vitro and animal genetic toxicity studies were negative.

SECTION 12 - ECOLOGICAL INFORMATION**Birds:**

Fluroxypr is practically non-toxic to birds on an acute basis (LD₅₀ is >2000 mg/kg in most sensitive species tested).

Acute oral LD₅₀ : For bobwhite (*Colinus virginianus*) is >2250 mg/kg.

Fish:

Acute LC₅₀ for fish is reported to be >100 mg/l

Acute LC₅₀ for daphnids is > 100 mg/l

Algae:

The Acute LC₅₀ for algae is > 100 mg/l

Bees:

Not toxic to bees. LD₅₀ (contact, 48 h) >25 µg/bee

SECTION 13 - DISPOSAL CONSIDERATION**Pesticide and container disposal:**

Dispose of discarded product according to local and state health and environmental regulations.

Container disposal:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Comply with local legislation applying to waste disposal.

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SECTION 14 - TRANSPORT INFORMATION

UN No.: 1993
Road Transport ADR/IRD:
Class: 3
Packing group: III
Shipping name: Flammable liquid, n.o.s. (contains fluroxypyr)

This product is considered a Marine Pollutant.**SECTION 15 - REGULATORY INFORMATION**

Symbol: Xn, Xi
Indication of danger: Harmful, Irritant
Risk phrases:
R10 Flammable.
R36 Irritating to eyes
R38 Irritating to skin
R65 Harmful: May cause lung damage if swallowed.
Safety phrases:
S 2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20 When using do not eat or drink.
S20/21 When using, do not eat, drink or smoke.
S36/39 Wear suitable protective clothing and eye/face protection.

SECTION 16 - OTHER INFORMATION**Packaging:**

Packed in 1, 2, 5, 10, 20 & 25 litres plastic containers and labeled according to South African regulations and guidelines.

Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.