

**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

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name:</b>	ORCA 125 EC
<b>Creation Date:</b>	June 2011
<b>Revision Date:</b>	August 2017
<b>Product Name:</b>	Fluazifop-P-Butyl 150g/l EC
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>20</sub> F <sub>3</sub> NO <sub>4</sub>
<b>Molecular Weight:</b>	383.4 :
<b>Chemical Name:</b>	Butyl(R,S)-2-[4-[[5-(trifluoromethyl)-2-pyridinyloxy]phenoxy]propanoate.
<b>CAS No.:</b>	79241-46-6
<b>Chemical group:</b>	aryloxyphenoxypropionate herbicides
<b>24 Hr Emergency Number:</b>	082 771 2712
<b>In case of poisoning:</b>	
Poison Information Centre:	082 446 8946
Tygerberg Hospital:	(021) 931 6129
Poison Emergency Enquiries	(021) 689 5227
<b>In case of Spillage:</b>	
HAZMAT:	0800 147 112

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS No	Percent (m/v)	
Active ingredient	Fluazifop-P-Butyl	79241-46-6	12%
Inert ingredient	Other ingredients, including water	//	Up to 100%

**SECTION 3 - HAZARD IDENTIFICATION****Symptoms of Acute Exposure**

Can cause eye, skin and respiratory passage irritation. May cause sensitization by skin contact. Harmful if inhaled or swallowed. Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

Hazardous Decomposition Products Can decompose at high temperatures forming toxic gases.

**Physical Properties**

**Appearance:** Dark brown liquid, free of sediment .

**Odour:** Aromatic.

**Unusual Fire, Explosion and Reactivity Hazards**

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS****EYE CONTACT:**

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN CONTACT:**

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15- 20 minutes.Call a poison control center or doctor for treatment advice.

**INHALATION:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**INGESTION:** If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** There is no specific antidote if this product is ingested. Treat symptomatically. Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

**Medical Condition Likely to be aggravated by exposure**

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None known.

## SECTION 5 - FIRE-FIGHTING MEASURES

Fire and Explosion Flash Point (Test Method): &gt; 212°F (TCC)

Flammable Limits (% in Air): Lower: % Not Applicable

Upper: % Not Applicable

Autoignition Temperature: Not Applicable:

Flammability: Not Applicable

### Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

### In Case of Fire

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect run off.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

### In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Eye Contact:** Where eye contact is likely, use chemical splash goggles.

**Skin Contact:** Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

**Inhalation:** A combination particulate/ organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Brown liquid
<b>Odour:</b>	Aromatic
<b>pH:</b>	4-7
<b>Specific Gravity/Density:</b>	0.98 g/ml at 68°F (20°C)
<b>Miscibility with water:</b>	Miscible
<b>Melting Point:</b>	Not Applicable
<b>Boiling Point:</b>	Not Available
<b>Oxidizing properties:</b>	Non-oxidising
<b>Explosive properties:</b>	Non-explosive

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**SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable under normal use and storage conditions.  
 Hazardous Polymerization: Will not occur.  
 Conditions to Avoid: None known.  
 Materials to Avoid: Oxidizing agents.  
 Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

**SECTION 11 - TOXICOLOGICAL INFORMATION****Acute Toxicity/Irritation Studies (Finished Product)****Reproductive/Developmental Effects :**

Ingestion: Practically Non-Toxic  
 Oral (LD<sub>50</sub> Rat): > 2,000 mg/kg body weight  
 Dermal: Practically Non-Toxic  
 Dermal (LD<sub>50</sub> Rat): > 2,000 mg/kg body weight  
 Inhalation: Slightly Irritating (Rabbit)  
 Inhalation (LC<sub>50</sub> Animal Not Available): 0.54 mg/l air - 4 hours  
 Eye Contact: Slightly Toxic (Rabbits)  
 Skin Contact: Moderately Irritating (Rabbit)  
 Skin Sensitization: See "Other Toxicity Information", Sec. 11

**SECTION 12 - ECOLOGICAL INFORMATION****Ecotoxicity:**

**Birds** Acute LD<sub>50</sub>: for mallard ducks >3500mg/kg  
**Fish** LC<sub>50</sub> (96h): for rainbow trout 1.3 mg/l.  
**Daphnia** EC<sub>50</sub> (48h)>1.0mg/l  
**Algae** EC<sub>50</sub>: for Navicula pelliculosa 0.51 mg/l  
**Bees** LD<sub>50</sub> (oral) >0.2 mg/bee LD<sub>50</sub> (contact) >0.2 mg/bee  
**Earthworm:** LC<sub>50</sub> (14 days)>1000mg/kg

**Persistence and degradability:** There is evidence of rapid hydrolysis in water and soil to the parent acid, which also rapidly degrades and is of lower intrinsic toxicity.

**Bioaccumulative potential:** Fluazifop-P-Butyl has potential for bioaccumulation. However, it is rapidly metabolised and eliminated from fish (97% within 3 days).

**SECTION 13 - DISPOSAL CONSIDERATION**

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations. Do not contaminate ponds, waterways or ditches with chemical or used containers. Empty containers should be washed and discarded. Empty containers should not be used for other purposes.

**14. TRANSPORT INFORMATION**

Hazard Class or Division: Class 9  
 Identification Number: UN 3082  
 Packing Group: PG III  
 UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

**15. REGULATORY INFORMATION****EPCRA SARA Title III Classification :**

Section 311/312 Hazard Classes: Acute Health Hazard  
 Chronic Health Hazard

Section 313 Toxic Chemicals: Naphthalene (≤3.9%) (CAS No. 91-20-3)

**California Proposition 65 :**

Not Applicable

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**CERCLA/SARA 302 Reportable Quantity (RQ) :**

Report product spills &gt; 305 gal.

(based on naphthalene [RQ = 100 lbs.] content in the formulation)

**RCRA Hazardous Waste Classification (40 CFR 261) :**

Not Applicable

**TSCA Status :**

Exempt from TSCA, subject to FIFRA

**16. OTHER INFORMATION**NFPA Hazard Ratings

Health: 2

Flammability: 1

Instability: 0

HMIS Hazard Ratings

Health: 2

Flammability: 1

Reactivity: 0

1 Slight

2 Moderate

3 Serious

4 Extreme

**Additional Information**

For retail sale and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. Direct supervision for this product requires the certified applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, or repair or cleaning of application equipment. The date in this Material Safety Data Sheet relates only to the specific material designated herein and dose not related to use in combination with any other material or in any process.