

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

Product Name: AGENDA 240 EC
Product Use: Herbicide
Creation Date: October 2010
Revision Date: August 17

Common name: Clodinafop-propargyl
Chemical Name: prop-2-ynyl (R)-2-[4-(5-chloro-3-fluoropyridin-2-yloxy)phenoxy]propionate
CAS No.: 133-06-2
Use: Agricultural herbicide.

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

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Clodinafop-propargyl content(a.i) : 25.5%
Other non hazardous ingredients : to 100%

SECTION 3 - HAZARD IDENTIFICATION

Skin contact:

May moderately irritate skin. The dermal toxicity of this product is low. However, skin contact should be avoided. This product is a potential skin sensitizer

Eye contact:

This product may be mildly irritating to eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any lasting effects.

Inhalation:

May be a slight respiratory irritant.

Ingestion:

The acute toxicity of this product is low, but it may be harmful if a large amount is swallowed.

Environmental hazard: Slightly toxic to aquatic organisms.

Fire and explosion: Not flammable and explosive

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre.

Swallowed: If swallowed and if more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup (APF)

Eye: If product gets in eyes, wash it out immediately with water. Seek medical attention.

Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water.

Inhaled: Move affected person to fresh air and keep at rest until recovered.

Advice to doctor:

No specific antidote exists. Treat symptomatically.

SECTION 5 - FIRE-FIGHTING MEASURES

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Ignitable; combustible liquid. Take up with sand, earth or other non-combustible absorbent material or dike for later disposal. Avoid flame or sparks.

Respiratory equipment in case of spill, leak or emergency: In case of spill, leak or emergency use chemical cartridge-type respirator approved by National Institute of Occupational Health and Safety.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS**Handling:**

Users should wash their hands before eating, drinking, chewing gum using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not enter or allow worker entry into treated areas during the restricted-entry interval of 24 hours.

Storage:

There are no special storage problems under normal ambient conditions. Storage at high temperature (>50°C) should be avoided.

Keep out of reach of children.

Wear long sleeved overalls and gloves while handling.

Store in a closed original container in a dry, well ventilated area, as cool as possible, out of direct sunlight.

Store in locked room or place away from children, animals, food, foodstuffs, seed and fertilizers.

Avoid contact with the eyes, skin and clothing or inhalation of the product.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation, packaging and use of this product for commercial application and/or on-farm applications consult the product label. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure.

Ingestion:

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.

A respirator is not normally required when handling this substance. Use effective engineering controls.

Inhalation: Comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any R,P or HE filter.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Odour:	Aromatic solvent odour
Specific gravity:	1.06 – 1.10 g/cm ³ (at 20°C)
Melting Point:	<-10°C
Flash point:	>70°C (closed cup)
Behaviour in water:	Emulsifiable
Viscosity:	22.67 mPas at 20 °C
Surface tension:	34.0 – 34.4 mN/m
Corrosiveness :	Not corrosive.

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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:

None known

Hazardous Decomposition Products:

Can decompose at high temperatures forming toxic gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral LD50:	>2276 mg/kg in rats.
Acute dermal LD50:	4000 mg/kg in rats.
Acute inhalation LC50:	>3.5 mg/l in rats for 4 hours.
Eye Irritation:	Moderate – irritant
Skin Irritation:	Moderate - irritant
Dermal sensitization:	Potential sensitization

SECTION 12 - ECOLOGICAL INFORMATION**ECOTOXICOLOGY:****Birds:**Acute oral LD₅₀: Mallard Duck >5200 mg/kg**Fish:**LC₅₀: Rainbow Trout 0.39 mg/l

Bluegill Sunfish 0.21 mg/l

Bees:Honey bees LC₅₀: > 100 ug/bee**Daphnia:**Daphnia EC₅₀ (96h): >0.14 mg/l**SECTION 13 - DISPOSAL CONSIDERATION**

In accordance with local, provincial and federal regulations. Packaging should be disposed of at a specialized chemical waste. Contact regional environmental agency.

14. TRANSPORT INFORMATION

UN No.	:	3082
IMDG Page No.	:	9029
Class	:	9
Packaging group	:	III
Proper shipping name	:	Environmentally non-hazardous substance, solid

15. REGULATORY INFORMATION

Risk phrases	:	R22 Harmful if swallowed
Hazard Symbol	:	Not classified as hazardous cargo
Safety phrases	:	S36: Wear suitable protective clothing S2: Keep out of reach of children S13: Keep away from food, drink or feeding stuffs.

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16. OTHER INFORMATION

To the best of FarmAg International (Pty) Ltd Protection's knowledge, the above information is true and accurate as of the date of preparation of this material safety data sheet. The above information is not intended to be exhaustive. Additional or other information may be required depending on actual conditions of use and handling. FarmAg International (Pty) Ltd makes no warranties, expressed or implied and shall not be liable for any damages or injury, howsoever caused, arising out of the use of this data sheet.