

## Safety Data Sheet

### ULTIMA 240 EC - Reg. No: L 8234 (Act No 36 of 1947)

Date of issue: 23/08/2008

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<b>1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.</b>	
<b>Product name:</b>	<b>ULTIMA 240 EC</b>
<b>Other means of identification:</b>	Clodinafop-propargyl 240 g/L EC
<b>UN number:</b>	3082
<b>Recommended use:</b>	Herbicide
<b>Restrictions on use:</b>	For use as an agricultural remedy only.
<b>Distributed by:</b>	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
<b>Emergency Number:</b>	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
<b>Chemical Name:</b>	<u>Clodinafop-propargyl</u> : propynyl (R)-2-[4-[(5-chloro-3fluoro-2-pyridinyl)oxy]phenoxy] propanoate
<b>2) Classification of the substance / mixture:</b>	
<b>Classification of the product:</b>	N; Xn; Xi; R22; R36/38; R43; R48/22; R50/53; R65; R66; R67 Full text of R-phrases; see section 15.
<b>Label elements:</b>	Hazard Pictogram(s):   For full text of symbols, R phrases and H statements refer to section 15.
<b>Health effects: eyes:</b>	Irritant
<b>Health effects: skin:</b>	Irritant
<b>Health effects: ingestion</b>	Harmful
<b>Health effects: inhalation</b>	May be harmful
<b>Health effects: Other</b>	No data available
<b>3) COMPOSITION / INFORMATION ON INGREDIENTS:</b>	
Mixture:	

Chemical name	Composition (g/L)	CAS No.	EC No.	CLP Classification	Classification according to 67/548/EEC
Clodinafop-propargyl	240	105512-06-9	600-662-6	Acute Tox. 4, H302 Skin. Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Xn; R22-48/22 R43 N; R50-53
Cloquintocetmexyl	60	99607-70-2	619-447-3	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
N-methyl pyrrolidone	<100	872-50-4	212-828-1	Skin Irrit. 2 H315 Eye Irrit. H319 STOT SE 3 H335 Repr. 1B H360D	
Aromatic Hydrocarbons	>200	64742-94-5	265-198-5	Asp. Tox. 1 H304	

Full text of R- and S-phrases: see section 15.

#### 4) First Aid Measures:

<b>Eye contact:</b>	Flush with large quantities of clean tap water for at least 15 minutes. Seek medical attention.
<b>Skin contact:</b>	Remove contaminated clothing and wash affected areas thoroughly with soap and water.
<b>Ingestion:</b>	If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed DO NOT induce vomiting. Begin artificial respiration if victim is not breathing. Use mouth to nose rather than mouth to mouth.
<b>Inhalation:</b>	Move affected person to fresh air and keep at rest until recovered.
<b>Most important symptoms and effects, acute and delayed:</b>	No data available
<b>Indication of immediate medical attention and special treatment needed: Advice to physician</b>	No specific antidote is known. Treat symptomatically.

#### 5) Fire-Fighting Measures:

<b>Suitable extinguishing media:</b>	Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).
<b>Unsuitable extinguishing media:</b>	Water jet, due to contamination risk.
<b>Special hazards arising from the substance or mixture:</b>	Combustion products are toxic and/or irritant. Measures must be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.
<b>Fire-fighting:</b>	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. Keep upwind. Remove containers 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 and avoid polluting waterways. Avoid the accumulation of polluted run-off from the site. Small fires: If area is heavily exposed to fire and if conditions

	<p>permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with spray water.</p>
<b>Protective clothing:</b>	Full protective clothing and self-contained breathing apparatus
<b>6) Accidental Release Measures:</b>	
<b>Personal precautions:</b>	<p>Harmful if swallowed. Repeated exposure may cause allergic disorders. Avoid inhaling spray mist.</p> <p>Avoid contact with eyes and skin.</p> <p>Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.</p>
<b>Environmental precautions:</b>	<p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.</p>
<b>Cleaning procedure:</b>	<p>Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.</p>
<b>Disposal:</b>	<p><b>Waste Disposal:</b></p> <p>Pay attention to protective clothing and measures. Collect material in specially marked, tightly closing containers. Heavily contaminated soil layers must be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.</p> <p><b>Container Disposal:</b></p> <p>Dispose of empty containers in an incinerator approved for chemicals.</p> <p><b>Damaged containers:</b> Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.</p>
<b>7) Handling &amp; Storage:</b>	
<b>Handling:</b>	<p>Keep out of reach of children, unauthorised persons and animals. Avoid contact with eyes and skin. Avoid breathing fumes/vapour.</p> <p>Do not eat, drink or smoke while mixing or applying the product or before washing hands and face. Prevent contamination of food, feeds, drinking water and eating utensils.</p>
<b>Storage:</b>	<p>Store in tightly sealed, original containers in a cool, dry secure place away from fertilisers, feed and food.</p> <p>Store out of direct sunlight.</p>
<b>8) Exposure Control / Personal Protection:</b>	
<p>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.</p>	

<b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b>	
<b>Clothing:</b>	Consult supplier to confirm that the equipment is suitable.
<b>Gloves:</b>	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.
<b>Eye protection:</b>	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.  The use of safety goggles with side shields is recommended.
<b>Respiratory protection:</b>	Wear suitable respiratory equipment, especially during spraying, such as a face mask.
<b>Emergency eye wash:</b>	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.
<b>9) Physical &amp; Chemical Properties:</b>	
<b>Form:</b> <b>Colour:</b> <b>Odour:</b> <b>Odour threshold:</b> <b>pH:</b> <b>Melting point / Freezing point</b> <b>Initial boiling point and boiling range</b> <b>Flash point:</b> <b>Evaporation rate:</b> <b>Flammability (solid, gas)</b> <b>Upper/ lower flammability or explosive limits:</b> <b>Vapour pressure:</b> <b>Vapour density:</b> <b>Relative density:</b> <b>Solubility(ies)</b> <b>Partition coefficient: n-octanol/water</b> <b>Auto-ignition temperature:</b> <b>Viscosity:</b>	Liquid Light Brown Characteristic No data available No data available No data available No data available > 70 °C (closed-cup) No data available Slightly flammable No data available No data available No data available No data available 0.997 g/L at 20 °C. No data available No data available No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b> <b>Chemical stability:</b>  <b>Hazardous decomposition product(s):</b>  <b>Conditions to avoid:</b> <b>Incompatible materials:</b>	Not available.  When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Thermally and chemically stable.  Product will emit toxic and noxious fumes on decomposition when burnt.  Protect from direct sunlight.  Avoid strong oxidizers, strong acids, strong bases.
<b>11) Toxicological Information:</b>	

Acute:

Oral LD50 1882 mg/kg.

Dermal LD50 2 000 mg/kg, rat

Inhalation LC50 (4h): 2.325 mg/L air, rat

Skin irritation : Mild irritant

Eye irritation : Mild irritant.

Sensitisation : May cause skin sensitisation (guinea pigs).

Mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

Teratogenicity : No data available

Repeated dose toxicity: No data available

## 12) Ecological Information:

### Information below based on active ingredient:

**Bees:** LD50 (48h, oral and contact) >100 µg/bee.

**Birds:** LD50 (8 days) for Mallard duck > 2000, bobwhite quail >1455 mg/kg.

**Fish** : LC50 (96h) for rainbow trout 0.39, carp 0.46, catfish 0.43 mg/l

**Algae** : EC50 (96-120 h) for *Scenedesmus subspicatus* 25, *Microcystis* >65.5, *Navicula* 6.8 mg/l.

**Worms:** LC50 for earthworms 210 mg/kg.

**Other aquatic species:** Daphnia: LC50 (48h) > 74 mg/l.

### Environmental Fate:

**Animals:** Hydrolysed to the corresponding acid. **Plants:** In plants, rapidly degraded to the acid derivative as major metabolite.

**Soil/Environment:** In soil, undergoes rapid degradation to the free acid (DT50 <2 h) and then further to phenyl and pyridine moieties which are bound to the soil and mineralised. The free acid is mobile in soil but is further degraded with DT50 5-20 d; in practice, there is a negligible leaching potential.

## 13) Disposal Considerations:

**Waste Disposal** Pay attention to protective clothing and measures. Collect material in specially marked, tightly closing containers. Heavily contaminated soil layers must be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

In accordance with local and national regulations. 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 waste disposal facility.

**Container Disposal:** Refer to the product label for instructions.

Container Refilling and Disposal:

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE, perforate and flatten.

Do not transport if this container is damaged or leaking.

## 14) Transportation Information:

UN NUMBER: 3082

Road Transport ADR/RID:

Class: 9

Packing group: III

Hazard labels: N, Xn

Proper shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Clodinafop-propargyl)

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Hazard labels: N, Xn

Proper shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Clodinafop-propargyl)

Maritime Transport IMDG/IMO:

Class: 9

Packing group: III

Hazard labels: N, Xn

Proper shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Clodinafop-propargyl)

Marine pollutant.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): Not applicable

### 15) Regulatory Information:

**Symbols:** Xn – Harmful

N - Dangerous for the environment

Xi – Irritant

#### Risk – Phrase:

R22 - Harmful if swallowed.

R36/38 - Irritating to eyes and skin.

R43 - May cause sensitization by skin contact.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

R65 - Harmful: may cause lung damage if swallowed.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

#### Safety – Phrase:

S1/2 - Keep locked up and out of the reach of children.

S24 - Avoid contact with skin.

S36/37 - Wear suitable protective clothing and gloves.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S60 - This material and/or its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment.

#### Hazard Statements

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation

H360D - May cause damage to the unborn child

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.

#### **16. Other Information**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. 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.

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