

TIPTOP



Reg. No.: L 7980 Act /Wet No. 36 of/van 1947

An emulsifiable concentrate herbicide for the selective post-emergence control of annual grasses in wheat in the Western and Eastern Cape and in dryland and irrigated areas of the summer rainfall region.

'n Emulgeerbare konsentraat onkruidodder vir die selektiewe na-opkom beheer van eenjarige grasse in koring in die Wes- en Oos-Kaap en in droëland- en besproeiingsareas van die somerreënvalgebied.

HRAC HERBICIDE GROUP CODE:	A	HRAC ONKRUIDDODER GROEP KODE:
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

clodinafop-propargyl (aryloxyphenoxypropionate) 240 g/l
 klodinafop-propargiel (arieloksifenoksiopronaat) 240 g/l

Registration holder:/Registrasiehouer:

Almond Agrochemicals (Pty) Ltd
 Co. Reg. No./Mpy. Reg. No. 1997/006442/07
 P O Box/Posbus 188
 VAN RIEBEECK PARK, 1629
 Tel. 011 975 6923


Distribute by / Versprei deur:

ARYSTA LifeScience South Africa (Pty) Ltd
 Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07
 7 Sunbury Office Park,
 Off Douglas Saunders Drive, La Lucia Ridge,
 South Africa, 4019
 Tel: 031 514 5600

Contents/Inhoud
(e)

Batch No. / Lot Nr.:	
Date of manufacture: / Datum van vervaardiging:	

U.N. No. Not regulated



CAUTION
 VERSIGTIG

READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.
For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

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CAUTION / VERSIGTIG

WARNINGS:

- Harmful if swallowed.
- A skin sensitizer.
- Toxic to fish.
- Store in a cool place away from food and feed.
- **Re-entry period:** Do not enter treated area until spray deposit has dried unless wearing protective clothing
- Keep out of reach of children, uninformed persons and animals.
- **FLAMMABLE:** Keep away from flames.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the drift to contaminate water or adjacent areas.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not guarantee that it will be effective under all conditions because the activity and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- Do not inhale the spray mist.
- Avoid skin contact. Wear protective gloves and face shield when handling concentrate.
- Wash with soap and water after accidental skin contact and use.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face and change of clothing.
- Avoid drift of spray onto other crops especially oats, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Triple rinse empty container 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 empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsate to the contents of the spray tank before destroying the container in the prescribed manner.

- Destroy container by perforation and flattening and dispose of in a responsible manner.
- Do not use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

RESISTANCE WARNING

For resistance management, **TIPTOP 240 EC** is a group code **A** herbicide. Any weed population may contain individuals naturally resistant to **TIPTOP 240 EC** and other group code **A** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **TIPTOP 240 EC** or any other group code **A** herbicide.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code.
- Alternate or tank mix with products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS

- Do not apply **TIPTOP 240 EC**
 - to weeds under conditions of drought, nutrient or cold stress
 - to waterlogged soils
 - in a tank mixture with sulfonylureas
 - In barley
- Do not apply **TIPTOP 240 EC** over or allow spray drift to come in contact with neighbouring oats fields.

MINIMUM RECROPPING INTERVALS AND CROP ROTATION:

TIPTOP 240 EC is quickly broken down in the soil and offers full rotational flexibility for crops.

APPLICATION TECHNIQUES

Apply **TIPTOP 240 EC** only to young actively growing weeds, i.e. weeds growing in moist soil. To ensure effective control it is important that all aerial parts of the weeds are thoroughly covered by the herbicide spray. Apply **TIPTOP 240 EC** before crop growth reaches a density which could impede effective coverage of the weeds.

For effective weed control with **TIPTOP 240 EC** the following instructions should be followed:

Ground application

TIPTOP 240 EC alone, or in a tank mixture with other herbicides may be applied with any medium or high volume sprayer equipped with an efficient agitation mechanism, on the condition that adequate coverage and even distribution is obtained. Best results are obtained using flat fan-type spray nozzles. Ensure thorough coverage of the weeds by using not less than 200 ℓ/ha spray mixture.

Aerial application

Aerial application of **TIPTOP 240 EC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of at least 30 l per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended above.
- **Droplet coverage:** 30 to 40 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 300 to 350 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
 - The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
 - Stop spraying if the wind speed exceeds 15 km/h.
 - Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
 - Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
 - Ensure that the Aerial Spray Operator knows exactly which fields to spray.

Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

WEEDS CONTROLLED

The following weed species are normally controlled With **TIPTOP 240 EC** at the dosage rates indicated:

<i>Avena spp.</i>	wild oats
<i>Lolium multiflorum</i>	Italian ryegrass
<i>Panicum schinzii</i>	sweet buffalo grass
<i>Phalaris minor</i>	little seeded canary grass
<i>Zea mays</i>	volunteer maize

DIRECTIONS FOR USE - Use only as indicated

COMPATIBILITY

The compatibility of **TIPTOP 240 EC** with other products may be influenced by the formulation of the products involved as well as the quality of the water used for preparing spray mixture. Since the formulation of other products may change without the knowledge of Almond Agrochemicals and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out on a small scale prior to application.

MIXING INSTRUCTIONS

Half-fill the spray tank with water. Add the required amount of **TIPTOP 240 EC** to the water in spray tank while stirring tank contents. Thereafter, fill spray tank to the required volume with water.

When **TIPTOP 240 EC** is used in tank mixtures with other herbicides, insecticides and fungicides these must be added first to the spray tank, thoroughly mixed and in suspension before **TIPTOP 240 EC** is added.

Should any herbicide be left in container close container by replacing cap.

**Thoroughly agitate the spray mixture in the tank during mixing and spraying.
The spray mixture must be applied immediately after mixing and not allowed to stand in the spray tank for any period.**

NOTE

Weeds that are overgrown by other weeds or the crop may not be controlled due to inadequate coverage. This must be taken into account when application is timed.

APPLICATION RATES

TABLE 1

Application rates of TIPTOP 240 EC in the Western and Eastern Cape:

WEED	WEED STAGE	TIPTOP 240 EC mℓ/ha		REMARKS
		Ground	Aerial	
Wild oats (<i>A. fatua</i>) Little seeded canary grass (<i>P. minor</i>)	3 - 4 leaf	200	220	<ul style="list-style-type: none"> The application of TIPTOP 240 EC prior to the 3 - 4 leaf stage of wild oats and little seeded canary grass may result in re-germination. Although TIPTOP 240 EC will control wild oats up to the flag leaf stage, a delay in application until after the 3 - 4 leaf stage of the weed may result in severe yield losses of the crop due to weed competition. Inferior control of Italian ryegrass may be expected when TIPTOP 240 EC is applied after the 2 - 3 leaf stage of the weed.
Wild oats (<i>A. fatua</i>) Little seeded canary grass (<i>P. minor</i>)	3 - 4 leaf	250	275	
Italian ryegrass (<i>L. multiflorum</i>)	2 - 3 leaf			

TABLE 2

Application rate of TIPTOP 240 EC in irrigated wheat in the summer rainfall region:

WEED	WEED STAGE	TIPTOP 240 EC mℓ/ha		REMARKS
		Ground	Aerial	
Wild oats (<i>A. fatua</i>)	3 - 4 leaf	250	275	<ul style="list-style-type: none"> Apply TIPTOP 240 EC to actively growing weeds, preferably 1 - 2 days after irrigation. The control of wild oats after the 3 - 4 leaf stage may be too late and result in yield losses due to weed competition.

TABLE 3

Application of TIPTOP 240 EC in dryland wheat in the summer rainfall region:

WEED	WEED STAGE	TIPTOP 240 EC mℓ/ha		REMARKS
		Ground	Aerial	
Volunteer maize (<i>Z. mays</i>) Wild oats (<i>A. fatua</i>)	3 - 4 leaf	335	380	<ul style="list-style-type: none"> Apply TIPTOP 240 EC from early September after good spring rains provided the mean temperature over a 24-hour period exceeds 10 °C for three consecutive days. If wild oats has reached the 4 - 5 leaf stage before the above mentioned requirements can be met, TIPTOP 240 EC must be applied to minimise yield losses due to weed competition. Weed control could however be poorer. In such a case apply TIPTOP 240 EC as a follow-up application at 250 ml/ha.
Sweet buffalo grass (<i>Panicum schinzii</i>)	3 - 4 leaf	200	225	

IMPORTANT NOTES

- Weeds which germinate after application of **TIPTOP 240 EC** will not be controlled.
- Thorough coverage of the weeds with spray deposit is essential.
- Poor weed control may result if **TIPTOP 240 EC** is applied to weeds under moisture or other stress conditions.
- Apply **TIPTOP 240 EC** only when climatic conditions are favourable for weed development and weeds are actively growing.
- Exceptionally cold weather after the application of **TIPTOP 240 EC** may result in poor weed control.
- **TIPTOP 240 EC** rapidly inhibits growth of susceptible weeds. Depending on growth conditions and weed susceptibility visible symptoms of dying weeds may not be noticed within the first 3 weeks after application.
- **TIPTOP 240 EC** is a selective herbicide in wheat. It can be applied to any cultivar on the condition that the wheat has reached the 3-leaf stage.