



syngenta®

Reg. No. L5705 Act / Wet No. 36 of / van 1947 N-AR 0718 (Namibia/Namibië)

HERBICIDE GROUP B(2) ONKRUIDDODERGROEP

Aktiewe bestanddeel / Active ingredient:
prosulfuron 750 g/kg
(sulfonilureum) / (sulfonyleurea)

UN 3077

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**'n Waterdispergeerbare korrelonkruid-
doder in water-oplosbare sakkies vir die
selektiewe na-opkombeheer van een-
jarige breëblaaronkruid in gars, koring
en hawer.**

**A water dispersible granular herbicide
in water soluble bags for selective post-
emergence control of annual broadleaf
weeds in wheat, barley and oats.**

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(Griffon)

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Batch No

Date of Manufacture



CAUTION
VERSIGTIG



1. WARNINGS

**Allow the following number of days between last applica-
tion and grazing of the crops:**

Wheat, oats and barley 14 days

- Poisonous if swallowed.
- Store in a cool place.
- Store away from sun and damp, in original tightly closed containers in a well-ventilated, cool place.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Avoid storage above 35° C.
- **Re-entry:** Do not enter treated area until spray deposit has dried unless protective clothing is worn.
- **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. The activity and effect 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.

2. PRECAUTIONS

- Do not inhale the spray mist.
- Avoid skin contact.
- Wash with soap and water after use.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift or spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Ensure that all traces of **PEAK** are removed. (Read sprayer cleanup).
- Prevent contamination of food, feed, drinking water and eating utensils.
- Destroy empty container and do not use it for any other purpose.

3. RESISTANCE MANAGEMENT

For resistance management, **PEAK** is a group code B(2) herbicide. Any weed population may contain individuals naturally resistant to **PEAK** and other group code B(2) herbicides. The

resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly and exclusively in programs. These resistant weeds may not be controlled by **PEAK** or any other group codes B(2) herbicides.

To delay herbicide resistance:

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

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

4. USE RESTRICTIONS

- Do not apply **PEAK** to barley, wheat and oats which is stressed by severe weather conditions, drought, water logging, disease or insect damage.
- Do not use **PEAK** on soils where the pH (H₂O) is equal to or greater than 7 and/or on soils containing free lime, as the residual activity may be extended and crop rotation options adversely affected beyond normal intervals.
- Do not apply **PEAK** to cereals undersown with legumes.

4.1 MINIMUM RECROPPING INTERVALS AND CROP ROTATION GUIDELINES

Crops other than barley, wheat and oats may be very sensitive to low concentrations of **PEAK** in the soil. Therefore careful consideration should be given to crop rotation plans prior to using **PEAK**.

The minimum recropping interval is the time between the last application of **PEAK** and the anticipated date of planting a subsequent crop.

To avoid injury to subsequent crops, the following recropping intervals should be observed.

Crop	Recropping interval
Maize	1 month
Wheat	6 months
Barley	6 months
Oats	6 months
Lupins	9 months
Peas	9 months
Canola	10 months
Medics	11 months
Clover	11 months
Lucern	11 months
All other crops	24 months

IMPORTANT

- The above mentioned waiting periods are valid only if the correct dosage rate of **PEAK** was applied on soil with a pH (H₂O) of less than 7 and normal or above average rainfall fell during and following the season in which the application was made.
- When **PEAK** has been applied to irrigated wheat the follow-on crop can only be maize. Extreme care should be taken not to follow **PEAK** treated fields with broadleaf crops e.g. soya-beans or drybeans.

5. WEEDS CONTROLLED

The following weeds are normally controlled by **PEAK** at the dosage rates recommended below:

PEAK	
<i>Anagallis arvensis</i> <i>Chenopodium murale</i> <i>Fumaria muralis</i> <i>Polygonum aviculare*</i> <i>Raphanus raphanistrum*</i> <i>Spergula arvensis</i> <i>Vicia</i> spp.	pimpernel goosefoot fumitory prostrate knotweed wild radish chickweed vetch
PEAK + CAMPATOP 225 EC	
<i>Arctotheca calendula</i> <i>Bilderdykia convolvulus</i> <i>Chenopodium album</i> <i>Emex australis</i> <i>Polygonum aviculare</i> <i>Raphanus raphanistrum</i>	Cape marigold climbing knotweed white goosefoot spiny emex prostrate knotweed wild radish
PEAK + ALLY 20 DF	
All the weeds controlled by PEAK plus <i>Emex australis</i>	spiny emex

- Use **PEAK + CAMPATOP 225 EC** for control of these weeds in the Free State.

6. DIRECTIONS FOR USE

Use only as directed

General information

- Poor residual activity may be expected under dry soil conditions, especially on late germinating or large seeded weeds, due to reduced availability for uptake of **PEAK** in the soil solution.
- PEAK** rapidly inhibits growth of susceptible weeds. However, visible symptoms of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility.
- Rainfall occurring within 6 hours after a **PEAK** application may reduce weed control.

6.1 COMPATIBILITY

The compatibility of **PEAK** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

PEAK is compatible with TOPIK® (L4250), CAMPATOP 225 EC (L5320), ALLY 20 DF (L3842), AGRAL (L5279), BREAK-THRU (L5895), CITOWETT (L2986), COMPLEMENT SUPER (L8169) and dimethoate.

PEAK should not be applied in mixtures with other herbicides, fungicides, insecticides, fertilisers or any other chemicals not recommended on the label.

6.2 MIXING INSTRUCTIONS

PEAK is a water dispersible granular formulation, which mixes easily with water, provided the following mixing procedures are observed:

- Quarter to half fill the spray tank with water. Commence agitation. Add the appropriate amount of surfactant. Add the required quantity of **PEAK** directly to the tank without prior creaming. Continue agitation while topping up the tank with water and while spraying.
- Use **PEAK** spray preparations within 24 hours as the effectiveness may be reduced due to product degradation. Thoroughly agitate before re-using.
- If **PEAK** is tank mixed with other herbicides, insecticides and fungicides, the **PEAK** must be well mixed and in suspension before the other compounds are added.

6.3 APPLICATION TECHNIQUES

6.3.1 Ground Application

PEAK may be applied with any medium or high volume sprayer properly calibrated and which is equipped with an efficient agitation mechanism and which is capable of adequate coverage and even distribution. Best results are obtained using flat fan-type spray nozzles and applying a minimum spray volume of 200 - 400 l water/ha.

6.3.2 Aerial application

Aerial application of this product 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 Remedies). It is important to 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 are met:

a) Application parameters:

- Volume:** A volume of 35 l/ha 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 the product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage:** A droplet coverage of 30 - 45 droplets/cm² must be recovered at the target. Ensure that the production of fine droplets (less than 150 microns - high drift & evaporation potential) is restricted to a minimum.
- Droplet size:** A droplet spectrum with a VMD of 300 - 350 microns is recommended.
- Flying height:** The height of the spray boom should be maintained at 3 - 4 metres up to 15 km/ha above the target. Do not spray when the wind speed exceeds 15 km/h. Do not spray when aircraft is in a climb, at the top or during a dive or when banking.

b) Equipment:

Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage but which will ensure the minimum loss of product either through endodrift (within target field) or exodrift (outside target field). The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span.

All nozzles / atomisers should be positioned within the inner 60% to 75% of the wingspan to prevent droplets from entering the wingtip vortices.

c) Meteorological conditions:

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.

Aerial application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur. Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) 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 the movement of the suspended spray cloud away from the target field.
- Ensure that fields are accurately marked.

It is essential to obtain an assurance from the aerial spray operator that the above requirements are met.

6.4 APPLICATION RATES

TABLE 1: Application rate of PEAK, ALLY 20 DF and CAMPATOP 225 EC in wheat, barley and oats:
(Western and Southern Cape only)

Application	Application rate (Product/ha)
PEAK: Ground and Aerial application	20 g
PEAK + CAMPATOP 225 EC: Ground application Aerial application	20 g + 0,75 ℓ Not recommended
PEAK + ALLY 20 DF (only wheat and barley) Ground and aerial application	20 g + 7 g

TABLE 2: Application rate of PEAK and CAMPATOP 225 EC in wheat:

(Summer rainfall area - dryland and irrigation)

Application	Application rate (Product/ha)
PEAK + CAMPATOP 225 EC: Ground and Aerial application	20 g + 0,75 ℓ

- Add COMPLEMENT SUPER (100 ml/ha) or BREAK-THRU (0,05 % v/v) to the spray mixture.
- When **PEAK** and **ALLY 20 DF** are mixed either COMPLEMENT SUPER (100 ml/ha), BREAK-THRU, AGRAL (0,05%v/v) or CITOWETT (0,01 % v/v) should be used.
- For best results apply **PEAK** or **PEAK + CAMPATOP 225 EC** on young (seedling - 2 leaf stage) and actively growing weeds under moist conditions. Apply after rain. Do not delay the **PEAK** application beyond the 4 - 5 leaf stage of the weeds and the **PEAK + CAMPATOP 225 EC** application beyond the 6-leaf stage of the weeds. Weeds can regrow if applications are made beyond the indicated growth stages.
- The degree of control and duration of effect will depend on weed size, growing conditions at, and following the period of application, pH (H₂O), rainfall and soil organic matter.

7. SPRAYER CLEANUP

To avoid injury to subsequent crops other than barley and wheat, immediately after spraying thoroughly remove all traces of **PEAK** from the mixing and spray equipment as follows:

- Drain spray system completely. While agitating, thoroughly rinse spray tank with clean water and spray out the rinsate through the nozzles. Drain system again.
- Refill spray tank with clean water to 15 - 20% of the tank volume, thoroughly rinsing all inside tank surfaces.
- Add 1 ℓ sodium hypochlorite (5,2 %) per 200 ℓ water while agitating. Rinse nozzles with rinsate for approximately 1 minute. Let remaining rinsate circulate in the spraying system for a minimum of 5 - 10 minutes.
- Completely spray out rinsate through the nozzles and dispose of it where it will not contaminate crops, pastures, rivers, dams and boreholes.
- To remove traces of the tank cleaner, flush the tank thoroughly with clean water, rinsing all inside tank surfaces. Spray out the remaining rinsate through the nozzles and drain system.

8. PRODUCT AND CONTAINER DISPOSAL

- Dispose of surplus product in an incinerator or on a landfill site approved for pesticides.
- Do not bury in, or spray onto any area under agricultural use.
- Dispose of containers made of plastic, cardboard or paper on a landfill site approved for pesticides or burn in a safe place where there is no risk of contamination by smoke and fumes.

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