

Reg. No. L5705 Act No. 36 van 1947 N-AR 0718 (Namibia)

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





Hazard statements: Harmful if swallowed. Very toxic to aquatic life with long-lasting effects. **Precautionary statements:** Keep out of reach of children. **Prevention:** Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. **Response:** If swallowed, call a POISON CENTRE or doctor if you feel unwell. Rinse mouth. Collect spillage. **Storage:** Store lockedup. **Disposal:** Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as nonhazardous waste.



1. WARNINGS:

Hazard statements: Harmful if swallowed. Very toxic to aquatic life with long-lasting effects.

Allow the following number of days between last application 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 container in a well-ventilated, cool area.
- 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 warrant that it will be efficacious under all conditions because the action 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 concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation and the environment, or harm to people or animals or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: Keep out of reach of children.

Prevention: Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. **Response:** If swallowed, call a POISON CENTRE or doctor if you feel unwell. Rinse mouth. Collect spillage. **Storage:** Store locked-up. **Disposal:** Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.

- 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 in the prescribed manner and do not use it for any other purpose.

3. RELEVANT SUBSTANCES:

Chemical name	
prosulfuron (ISO)	
Classification	Concentration (% w/w)
Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	≥ 70 - < 90

4. RESISTANCE MANAGEMENT:

PEAK is a group code 2 herbicide. Any weed population may contain individuals naturally resistant to **PEAK** and other group code 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 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.

5. USE RESTRICTIONS:

- Do not apply **PEAK** to barley, wheat and oats which are 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.
- 5.1 Minimum re-cropping 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 re-cropping 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.

Сгор	Re-cropping interval
MAIZE	1 month
WHEAT BARLEY OATS	6 months 6 months 6 months
LUPINS PEAS	9 months 9 months
CANOLA	10 months
MEDICS CLOVER LUCERN	11 months 11 months 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., soybeans or drybeans.

6. WEEDS CONTROLLED:

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

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

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

7. DIRECTIONS FOR USE: Use only as indicated.

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 - 3 weeks after application, depending on growing conditions and weed susceptibility.
- Rainfall occurring within six (6) hours after a **PEAK** application may reduce weed control.

7.1 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.

7.2 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.

7.3 Application Techniques

7.3.1 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.

7.3.2 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 and 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 target. Do not spray when the wind speed exceeds 15 km/h. Do not spray when aircraft is in a climb, at the top, 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 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 the 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 assurance from the aerial spray operator that the above requirements are met.

7.4 Application Rates

TABLE 1: Application rate of PEAK, ALLY 20 DF andCAMPATOP 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 m ℓ /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.

8. 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 one (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.

9. 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.

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