



We create chemistry

Optill™

Reg. No.: 14-C-157-2-C-137-9



**HARMFUL IF
SWALLOWED**

Net Content:

1 kg

| | | | |
|-------|---|----|------------|
| GROUP | 2 | 14 | HERBICIDES |
|-------|---|----|------------|

Composition: mass/volume:

| | |
|-----------------------|----------|
| Saflufenacil (Kixor®) | 178 g/kg |
| Imazethapyr | 500 g/kg |

Registered by:

Pivotal Agro-Services (PTY) Limited
Pivotal Agro House
37 Kenmark Crescent
Bluff Hill Industrial Park
Harare, Zimbabwe
Telephone: +263 242 309825/27

Manufactured and packed by:

BASF SE
Germany

™ = Trademark of BASF



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READ THE LABEL BEFORE USING THE PRODUCT

WARRANTY: Although this remedy has been 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 climatic and storage conditions, quality of dilution water, compatibility within other substances not indicated on the label and the occurrence of resistance of the disease, weed or pest, 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, the environment or harm to man or animal or for lack of performance of the remedy concerned due to the failure of the user to follow the label instructions or the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

Do not apply Optill™ in the following situations as crop damage may occur:

- Do not apply Optill™ on acid soils with pH (KCl) below 5.0
- Do not apply Optill™ on poorly drained soils, soils with a compaction layer or soils with a nutrient deficiency.
- Do not apply Optill™ on experimental or newly released cultivars of all registered crops on Optill™, including any seed production of any of the registered crops on Optill™ without consulting the advice of the distributor or manufacturer.
- Do not spray Optill™ after the crop has germinated, or cracking (beginning to germinate).
- When Optill™ is tank mixed with organophosphate or carbamate insecticides, temporary injury may result to the treated crops.
- Do not apply Optill™ through the irrigation system (e.g. Chemigation).
- Do not apply more than a maximum of 25 g/ha a.i. Saflufenacil (Kixor®) and 70 g/ha a.i. Imazethapyr in one cropping season (i.e. do not spray more than one application Optill™ per season).
- Do not incorporate more than 7.5 cm deep, when, Optill™ is applied pre plant incorporated.

FIRST AID MEASURES

First aid personnel should pay attention to their own safety.

Have the product label/container with you when calling the Doctor.

First Aid providers must wear protective clothing to prevent exposure.

IN CASE OF ACCIDENTAL POISONING – CONTACT A MEDICAL DOCTOR.

General advice: Avoid contact with the skin, eyes and clothing.

Take off immediately all contaminated clothing.

If difficulties occur: Obtain medical attention.

Show container, label and/or safety data sheet to physician.

If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

If Inhaled: Keep patient calm, remove to fresh air and seek medical attention.

On Skin contact: Immediately wash thoroughly with soap and water, seek medical attention.

Remove contaminated clothing.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On Ingestion: Do not induce vomiting, unless told so by a poison control centre or doctor.

Seek medical attention.

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Crop Tolerance

Registered crops are tolerant to Optill™ when applied according to label directions as a pre plant to pre-emergence treatment and under normal environmental conditions. Crop injury may occur under stressful growing conditions (e.g. low fertility, seedling disease, extreme cold or hot weather, excessive moisture, high soil pH, high soil salt concentration or drought). Severe crop injury will occur if Optill™ is applied post-emergence (over the top) to any crop.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Compatibility:

Optill™ can be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicides: Frontier® Optima and Prowl CS.

Mixing Instructions:

- Optill™ may only be sprayed with water as a spray carrier.
- Do not mix Optill™ within 20 metres of water sources, such as wells, bore holes, rivers, dams, canals or drainages.
- Fill the spray tank to about ¾ full with clean water.
- Shake the Optill™ container well. Measure the required volume of Optill™ and add it to the spray tank and start agitating to mix the Optill™ and the water.
- Then fill up the spray tank to the required level while maintain the agitation to ensure thorough mixing of the spray mixture before spraying starts. Maintain the agitation during spraying.
- The prepared mixture must not be left in the tank for long periods e.g. overnight.
- Use of a buffering agent is recommended where the pH of the water used for spraying is higher than 8.

Application Instructions:

- Optill™ may be applied or pre-emergence and ensure at least 7 mm of rainfall or irrigation occurs within 5 days after spraying.
- Optill™ should be mixed with a pre-emergent grass herbicide (e.g. Frontier® Optima and Prowl® CS) for enhanced control of grasses and certain broad leaf weeds.
- Do not apply Optill™ after the crop has germinated or “cracking” (when the crop is beginning to break through the soil) or severe crop injury will occur.
- Pre plant burn down applications should be done when the weeds are young and actively growing. Use higher volume applications when targeting dense weed populations.
- Optill™ may be applied by ground application or aerial application. Good spray coverage is important for good weed control.

Aerial application:

Aerial application of Optill™ may only be done by a qualified and registered operator using correctly calibrated registered aircraft. Ensure that the spray mixture is evenly distributed over the target area and drift

is restricted to a minimum. It is therefore essential that the following measures must be followed to reduce potential drift to non-target areas and achieve good spray results.

- Volume: Use more than 30 litres of water per hectare. The product has not been tested at lower volume rates, the producer/registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied at lower volume than the recommended above.
- Droplet Coverage: the number of droplets that must be recovered per cm^2 must be 20 – 30.
- Drop let size: A droplet spectrum with a VMD of 350 to 400 micron is recommended. Limit the production of droplets less than 150 micron.
- The distance of the outermost nozzles on the boom should not exceed $\frac{3}{4}$ of the length of the fixed wing span or 90 % of the rotor blade diameter to prevent droplets from entering the wingtip vortices.
- Use low drift nozzles. Do not use nozzles producing mist droplet spray.
- Nozzles must always point backward parallel to the air stream.
- Flying Height: The aircraft must spray at 3 metres above the crop canopy, but do not compromise aircraft safety, at wind speed of 0 – 8 km/h and at a height of 2 metres at wind speeds of 9 – 15 km/h and stop spraying if the wind speed is above 15 km/h. Do not apply when the aeroplane dives or climbs.
- Ensure an isolation distance of at least 15 meters between the area being sprayed and non target sensitive crops.
- Do not apply during periods of temperature inversions or when it is very hot.
- The temperature difference between the wet and dry bulb thermometers of a whirling hygrometer should not exceed 80C.
- Ensure the pilot knows exactly which fields to spray.

Soil erosion: Weed control will be reduced if either wind erosion or rain erosion carries away some of the top soil after the herbicide has been applied as a pre emergence.

Application rates:

| Crop | Method of Application | Dosage |
|---------|-----------------------|-------------------|
| Soybean | Pre-emergence | 140 grams/hectare |

Pre-Harvest Interval:

| Crop | Waiting Period |
|---------|----------------|
| Soybean | 85 days |
| Grazing | 65 days |

Waiting periods for follow up crops after Optill™ application

The following guide lines must be followed before planting a field that was sprayed with Optill™. However, the waiting periods are only valid if:

| Crop | Waiting Period |
|-------------------------|---------------------------|
| Soybean | Any time, no restrictions |
| Cereals (wheat, barley) | 4 months |
| Vegetables, potatoes | 20 months |
| Maize | 9.5 months |
| Other crops | 24 months |

WEEDS CONTROLLED:

Broad leaf weeds: C= Controled S= Suppressed

| Scientific Name | Common Name | Residual Application |
|--------------------------------|--------------------|----------------------|
| <i>Abutilon theophrasti</i> | Velvetleaf | S |
| <i>Amaranthus hybridus</i> | Pigweed | C |
| <i>Amaranthus spinosus</i> | Spiny pigweed | C |
| <i>Ambrosia artemisiifolia</i> | Common ragweed | S |
| <i>Ambrosia trifida</i> | Giant ragweed | S |
| <i>Bidens pilosa</i> | Blackjack | S |
| <i>Brassica spp.</i> | Canola- (rapeseed) | C |
| <i>Capsella bursa-pastoris</i> | Shepherd's-purse | C |
| <i>Chenopodium album</i> | Fat Hen | C |

| | | |
|---|----------------------------|---|
| <i>Commelina benghalensis</i> | Wondering Jew | S |
| <i>Cucumis zeyheri</i> | Wild cucumber | S |
| <i>Datura stramonium</i> | Thorn-apple | S |
| <i>Euphorbia herophylla</i> | Milk weed | C |
| <i>Galinsoga parviflora</i> | Gallant soldier | C |
| <i>Helianthus annuus</i> | Sunflower (volunteer) | S |
| <i>Hibiscus trionum</i> | Venice mallow | S |
| <i>Ipomea hederacea</i> | Ivy leaf morning glory | S |
| <i>Ipomea lacunose</i> | Pitted morning glory | S |
| <i>Ipomea purpurea</i> | Tall morning glory | S |
| <i>Ipomoea hederacea</i> var. <i>Integrifolia</i> | Entire leaf morning glory | S |
| <i>Jacquemontia tamnifolia</i> | Small flower morning glory | C |
| <i>Kochia scoparia</i> | Kochia | C |
| <i>Mollugo verticillata</i> | Carpetweed | C |
| <i>Nicandra physalodes</i> | Apple of Peru | C |
| <i>Polygonum convolvulus</i> | Wild buckwheat | C |
| <i>Polygonum pensylvanicum</i> | Pennsylvania smartweed | C |
| <i>Polygonum persicaria</i> | Ladys thumb | C |
| <i>Portulaca oleracea</i> | Common purslane | C |
| <i>Richadia Scabra</i> | Mexican clover | C |
| <i>Salsola kali</i> | Russian thistle | C |
| <i>Sida spinosa</i> | Prickly sida | S |
| <i>Sinapis arvensis</i> | Wils mustard | C |
| <i>Solanum nigrum</i> | Black nightshade | C |
| <i>Tagetes minuta</i> | Mexican marigold | C |
| <i>Solanum rostratum</i> | Buffalobur | S |
| <i>Solanum saccharoides</i> | Hairy nightshade | C |

| | | |
|----------------------------|------------------|---|
| <i>Tribulus terrestris</i> | Devil's Thorn | C |
| <i>Xanthium strumarium</i> | Common cocklebur | S |

Grasses: C= Controlled S=Suppressed

| Scientific Name | Common Name | Residual Application |
|-------------------------------|----------------------|----------------------|
| <i>Brachiaria eruciformis</i> | Sweet Signal grass | S |
| <i>Digitaria sanguinalis</i> | Crab Finger grass | S |
| <i>Digitaria ciliaris</i> | Tropical fingergrass | S |
| <i>Echinochloa crusgalli</i> | Barnyard grass | S |
| <i>Eleusine indica</i> | Rapoko grass | S |
| <i>Panicum maximum</i> | Guinea grass | S |
| <i>Panicum schinzii</i> | Sweet Buffalo grass | S |
| <i>Setaria faberi</i> | Bristle grass | C |
| <i>Setaria pallidifusca</i> | Red Bristle grass | C |
| <i>Setaria verticillata</i> | Sticky Bristle grass | C |
| <i>Urochloa panicoides</i> | Herringbone grass | S |
| <i>Sorghum bicolor</i> | Common Sorghum | S |



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