

■ • BASF

We create chemistry

Optill®

A water dispensable granule (WG) selective pre-emergent herbicide for the control of broadleaf weeds, some grass weeds and sedges in soyabeans.

HRAC GROUP	14	2	HERBICIDE
------------	----	---	-----------

Active Ingredients:

Saflufenacil (Kixor)
Imazethapyr

178g/kg
502g/kg

HAZARD STATEMENTS:

Suspected of damaging the unborn child
Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Wear protective gloves, clothing and eye protection.
Keep out of reach of children

Manufactured by:

BASF Group Headquarters
67056 Ludwigshafen - Germany
International Emergency Number: +49 180 2273-112.

Distributed by:

Precision Farming Holdings Limited,
P.O.BOX 34793, Unit 3B Apollo Business Park,
Mwembeshi Road Extension, Lusaka, Zambia. +260 211 847755/56-58.

Date of Manufacture:

Expiry date:

Batch/Lot No.:

ZEMA PRODUCT NUMBER:

NET WEIGHT: 1 kg

81078930 NVA 2022-05-0323-1145

® = Trademark for BASF



WARNING



READ THE LABEL BEFORE USING THE PRODUCT

WARNINGS

- Harmful when swallowed, inhaled or absorbed by skin.
- Keep locked up out of reach of children, uninformed persons and animals.
- Keep in the original container and store in a cool dry place away from food and feeds.
- Do not keep Optill® near heat or open flames.
- Irritating to skin and eyes; avoid contact, ingestion and inhalation.
- May cause sensitization in contact with skin.
- Toxic to fish and marine invertebrates and water plants.
- Prolonged cool and wet weather conditions, excessive irrigation, infection of seed and young seedlings by soil or seed borne diseases, seeds planted too deep or too shallow etc. may lead to crop damage. Where applicable, seeds should therefore preferably be treated with a suitable seed treatment fungicide.
- Do not apply Optill® directly on water or on areas where there is surface water.
- Allow 85 days between application and harvest of the crop.

Aerial Application

Notify and warn all inhabitants in the immediate area of the intended application and issue necessary warnings before spraying is done. Do not spray over adjacent areas or on water.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant 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 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 of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- Handle with care.
- Wear suitable protective clothing and face shield when handling the concentrate.
- Do not inhale spray mist.
- Wash contaminated clothing after use.
- Wash with soap and water after using/handling the product.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face after handling the product.
- Avoid spray drift onto other crops, grazing areas, rivers, dams and areas not under treatment.
- Clean applicator/spraying equipment after use. Dispose off washing water where it will not contaminate crops, grazing areas, rivers, dams or any other areas not under treatment.
- 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 the container. Add the rinsings to the contents of the spray tank

before destroying the container by perforation, flattening and burying, and never reuse it for any purpose.

- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not allow workers (or other people) to enter the treated area within 12 hours after application of the product.
- Keep containers closed to avoid accidental spillage and contamination.

FIRST AID TREATMENT

First Aid providers must wear protective clothing/equipment to prevent exposure. Remove contaminated clothing and seek medical advice. Have the product label or container with you when calling the Doctor.

IF IN EYES	Hold eyes open and rinse slowly and gently with clean water for 15-20 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing the eyes. Seek medical advice.
IF SWALLOWED	Call a doctor immediately for treatment advice. Rinse the mouth with clean water. Do not induce vomiting unless told so by a doctor. Do not give any liquid or solid food. Do not induce vomiting or give anything by mouth if the person is unconscious or having convulsions.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of clean water for 15-20 minutes. Seek medical advice.
IF INHALED	Move the person to where there is fresh air, keep the patient calm. Seek medical attention/advice quickly.
IN CASE OF ACCIDENTAL POISONING- CONTACT A DOCTOR QUICKLY	

USE RESTICTIONS

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 25g/ha a.i. Saflufenacil and 70g/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 7.5cm deep, when, Optill® is applied pre plant incorporated.

Crop Tolerance

Registered crops are tolerant to Optill® when applied according to label directions 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

Optill® may only be sprayed with water as a spray carrier

Compatibility:

Optill® can be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicides; Frontier Optima®, Prowl®, Glyphosate, Stomp Aqua®

Mixing Instructions:

- 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 $\frac{3}{4}$ 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 registered buffering agent is recommended where the pH of the water used for spraying is higher than 8.

Application Instructions

- Optill® may be applied pre-emergence. When Optill® is applied as pre emergence ensure at least 7mm of rainfall or irrigation occurs within 5 days after spraying.
- 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.
- Optill® may be applied by ground application or aerial application. Good spray coverage is important for good weed control.
- Avoid overlaps that will increase the rates above the recommended rates in this label, they may lead to crop damage.
- Avoid spray drift to non target areas.

Ground application

- Use about 100- 200 litres/ha. Higher volumes of water will improve coverage in situations where there is a high incidence of weeds that have already germinated.
- Any medium to high volume sprayer can be used as long as it can be calibrated properly and ensure even distribution of the herbicide.
- The boom must be 60 cm or less above the target surface.
- Apply only when the potential for drift to adjacent non target areas is minimal (e.g. wind speed is less than 15km/h).
- Keep at least 5 metres isolation distance between the area being sprayed and non target sensitive crops.

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' 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 0-8km/h and at a height of 2 metres at wind speeds of 9-15km/h and stop spraying if the wind speed is above 15km/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 8°C.
- 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.

Additives

For optimum burn down activity with Optill®, Imiboost must be added as an adjuvant.

Application rates

Crop	Method of Application	Dosage
Soyabeans	Pre emergence	140 grams/hectare

Rain Fast Period

The rain fast period for Optill® is 1 hour after application. Burn down activity may be reduced if rain or irrigation comes with 1 hour after application

Pre Harvest Interval

The following days must be observed before harvesting a field that was sprayed with Optill®.

Crop	Waiting Period
Soyabeans	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:

- the standard Optill® rate has been followed for the soil type
- at least 350 mm of normally distributed rain fall/irrigation was received after the application of Optill®, which was enough to ensure reasonable harvest.

Crop	Waiting time
Soyabeans	Any time, no restrictions
Cereals (wheat, barley)	4 months
Vegetables, potatoes	20 Months
Other crops	24 months

WEEDS CONTROLLED

Broadleaf weeds controlled at 140g/ha

C= Controlled S=Suppressed

Common Name	Scientific Name	Residual Application	Burn Down Application
Alligator weed	<i>Alternanthera philoxeroides</i>	-	C
Amaranth, Palmer	<i>Amaranthus palmeri</i>	C	C
Anoda, spurred	<i>Anoda cristata</i>	-	C
Bedstraw, catchweed	<i>Galium aparine</i>	-	C
Wild Beets	<i>Beta vulgaris</i>	-	C
Beggarticks, hairy	<i>Bidens pilosa</i>	-	C
Bindweed, field	<i>Convolvulus arvensis</i>	-	S
Wild Buck wheat	<i>Polygonum convolvulus</i>	C	C

(continued)

WEEDS CONTROLLED (continued)

Broadleaf weeds controlled at 140g/ha

C= Controlled S=Suppressed

Common Name	Scientific Name	Residual Application	Burn Down Application
Buffalobur	<i>Solanum rostratum</i>	S	S
Canola, volunteer (rapeseed)	<i>Brassica spp.</i>	C	C
Carpetweed	<i>Mollugo verticillata</i>	C	C
Chickweed, common	<i>Stellaria media</i>	-	C
Chickweed, mouse ear	<i>Cerastium vulgatum</i>	-	C
Cocklebur,common	<i>Xanthium strumarium</i>	S	C
Cowcockle	<i>Vaccaria pyramidata</i>	-	C
Cress hoary	<i>Cardaria draba</i>	-	S
Dandelion	<i>Taraxicum officinale</i>	-	S
Eveningprimrose, cutleaf	<i>Oenothera laciniata</i>	-	C
Falseflax, smallseed	<i>Camelina microcarpa</i>	-	C
Filaree redstem	<i>Erodium cicutarium</i>	-	S
Filaree, whitestem	<i>Erodiummoschatum</i>	-	S
Fleabane, hairy	<i>Conyza bonariensis</i>	-	C
Fleabane rough	<i>Erigeron asper</i>	-	C
Flixweed	<i>Descurainia Sophia</i>	-	C
Galant soldier	<i>Galinsoga parviflora</i>	C	-
Groundcherry,cutleaf	<i>Physalis angulata</i>	-	C

(continued)

WEEDS CONTROLLED (continued)

Broadleaf weeds controlled at 140g/ha

C= Controlled S=Suppressed

Common Name	Scientific Name	Residual Application	Burn Down Application
Groundsel, common	<i>Senecio vulgaris</i>	-	C
Henbit	<i>Lamium amplexicaule</i>	-	C
Horseweed (marestail)	<i>Conyza canadensis</i>	-	C
Jimsonweed	<i>Datura stramonium</i>	S	C
Knotweed, prostrate	<i>Polygonum aviculare</i>	-	C
Kochia	<i>Kochia scoparia</i>	C	C
Ladysthumb	<i>Polygonum persicaria</i>	C	C
Common Lambsquarters	<i>Chenopodium album</i>	C	C
Narrow leaf lamb squatters	<i>Chenopodium pratericola</i>	-	C
Lettuce, miners	<i>Claytonia perfoliata</i>	-	C
Lettuce, prickly	<i>Lactuca serriola</i>	-	C
Mallow, common	<i>Malva neglecta</i>	-	C
Mallow, little (cheeseweed)	<i>Malva parviflora</i>	-	C
Mallow, Venice	<i>Hibiscus trionum</i>	S	C
Marestail (horseweed)	<i>Conzya canadiensis</i>	-	C
Marshelder	<i>Iva xanthifoliar</i>	C	C

(continued)

WEEDS CONTROLLED (continued)

Broadleaf weeds controlled at 140g/ha

C= Controlled S=Suppressed

Common Name	Scientific Name	Residual Application	Burn Down Application
Morning glory, entireleaf	<i>Ipomoea hederacea</i> var. <i>Integruscula</i>	S	C
Morning glory, ivyleaf	<i>Ipomeoa hederacea</i>	S	C
Morning glory, palmleaf	<i>Ipomeoa wrightii</i>	-	C
Morning glory, pitted	<i>Ipomeoa lacunose</i>	S	C
Morning glory smallflower	<i>Jacquemontiana tamnifoliar</i>	C	C
Morning glory, tall	<i>Ipomeoa purpurea</i>	S	C
Mustard, black	<i>Brassica nigra</i>	C	C
Mustard, tumble	<i>Sisymbrium altissimum</i>	-	C
Mustard, wild	<i>Sinapis arvensis</i>	C	C
Nettle, burning	<i>Urtica urens</i>	-	C
Nightshade, black	<i>Solanum nigrum</i>	C	C
Nightshade, cutleaf	<i>Solanum triflorum</i>	-	C
Nightshade, Eastern black	<i>Solanum ptycanthum</i>	C	C
Nightshade, hairy	<i>Solanum saccharoides</i>	C	C
Pennycress, field	<i>Thlaspi arvense</i>	-	C
Pepperweed field	<i>Lepidium campestre</i>	-	C

(continued)

WEEDS CONTROLLED (continued)

Broadleaf weeds controlled at 140g/ha

C= Controlled S=Suppressed

Common Name	Scientific Name	Residual Application	Burn Down Application
Pepperweed, Virginia	<i>Lepidium virginicum</i>	-	C
Pigweed, prostrate	<i>Amaranthus blitoides</i>	-	C
Pigweed, redroot	<i>Amaranthus retroflexus</i>	-	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C	C
Pig weed, spiny	<i>Amaranthus spinosus</i>	C	C
milky weed	<i>Euphorbia herophylla</i>	C	C
Puncturevine	<i>Tribulus terrestris</i>	C	C
Purselane, common	<i>Portulaca oleracea</i>	C	C
Pusley, Florida	<i>Richadia Scabra</i>	C	S
Radich, Wild	<i>Raphanus raphanistrum</i>	-	S
Ragweed,common	<i>Ambrosia artemisiifolia</i>	S	C
Ragweed, giant	<i>Ambrosia trifida</i>	S	C
Redmaids	<i>Calandrina cilitia</i>	-	C
Rocket, London	<i>Sisymbrium irio</i>	-	C
Rocket Yellow	<i>Barbarea vulgaris</i>	-	C
Sesbania, hemp	<i>Sesbania exaltata</i>	-	C
Shepherd's-purse	<i>Capsella bursapastoris</i>	C	C
Sida, prickly	<i>Sida spinosa</i>	S	C

(continued)

WEEDS CONTROLLED (continued)

Broadleaf weeds controlled at 140g/ha

C= Controlled S=Suppressed

Common Name	Scientific Name	Residual Application	Burn Down Application
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	C	C
Smartweed, swamp (seedling)	<i>Polygonum coccineum</i>	-	C
Sowthistle, annual	<i>Sonchus oleraceus</i>	-	C
Sowthistle, spiny	<i>Sonchus asper</i>	-	C
Spurge, petty	<i>Euphorbia peplus</i>	-	C
Spurge, prostrate	<i>Euphorbia supina</i>	-	S
Spurge spotted	<i>Euphorbia maculata</i>	-	S
Spurry corn	<i>Spergula arvensis</i>	-	C
Starburr, bristly	<i>Acanthospermum hispidum</i>	-	C
Sunflower, common	<i>Helianthus annuus</i>	S	C
Swinecress	<i>Coronopus didymus</i>	-	C
Tansymustard, green	<i>Descurania Pinnata</i>	-	C
Tansymustard, pinnate	<i>Descurainia pinnata</i>	-	C
Thistle, Canada *	<i>Cirsium arvense</i>	-	S
Thistle, Russian	<i>Salsola kali</i>	C	C
Velvetleaf	<i>Abutilon theophrasti</i>	S	C
Watercress, creeping	<i>Coronopus squamatus</i>	-	C

(continued)

WEEDS CONTROLLED (continued)**Broadleaf weeds controlled at 140g/ha****C= Controlled S=Suppressed**

Common Name	Scientific Name	Residual Application	Burn Down Application
Watercress	<i>Nasturtium officinale</i>	-	C
Waterhemp	<i>Amaranthus tuberculatus</i>	-	C
Willowweed	<i>Epilobium adenocaulon</i>	-	C
Wondering Jew	<i>commelina Benghalensis</i>	C	S

Grass weeds controlled at 140g/ha**C= Controlled S=Suppressed**

	Common Name	Scientific Name	Residual Application	Burn Down Application
1	Barley Volunteer	<i>Hordeum vulgare</i>	-	S
2	Barnyard grass	<i>Echinochloa crus-galli</i>	S	S
3	Small Canary grass,	<i>Phalaris minor</i>	S	S
4	Crab Finger grass large	<i>Digitaria sanguinalis</i>	S	S
5	Crab Finger grass smooth	<i>Digitaria ischaemum</i>	S	S
6	Cup grass, woolly	<i>Eriochloa villosa</i>	-	C
7	Fox tail, Giant	<i>Setaria faberii</i>	C	C
8	Fox tail, Green	<i>Setaria Viridis</i>	C	C

(continued)

Grass weeds controlled at 140g/ha (continued)

C= Controlled S=Suppressed

	Common Name	Scientific Name	Residual Application	Burn Down Application
9	Fox tail Yellow	<i>Setaria pumilla</i>	C	C
10	Goose grass	<i>Elusine indica</i>	S	-
11	Johnson grass (rhizome)	<i>Sorghum Vulguae</i>	-	S
12	Johnson grass (seedling)	<i>Sorghum Vulgae</i>	C	C
13	Millet, Wild proso	<i>Panicum miliceum</i>	S	S
14	Oats, Volunteer	<i>Avena sativa</i>	-	S
15	Oats, wild	<i>Avena fatua</i>	-	S
16	Panicum, Fall	<i>Panicum dichotomiflorum</i>	S	-
17	Panicum, Texas	<i>Panicum Texanum</i>	S	-
18	Rice, Red	<i>Oryza rufipogon</i>	-	C
19	Sorghum	<i>Sorghum bicolor</i>	S	C
20	Signal grass, Broad leaf	<i>Bracharia Platyphylla</i>	S	C
21	Wheat, Volunteer	<i>Triticum spp.</i>	-	S
22	Sorghum alnum	<i>Sorghum alnum</i>	S	C



We create chemistry

Optill®

A water dispersible granule (WG) selective pre-emergent herbicide for the control of broadleaf weeds, some grass weeds and sedges in soyabeans.

HRAC GROUP	14	2	HERBICIDE
------------	----	---	-----------

Active Ingredients:

Saflufenacil (Kixor)
Imazethapyr

178g/kg
502g/kg

HAZARD STATEMENTS:

Suspected of damaging the unborn child
Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Wear protective gloves, clothing and eye protection.
Keep out of reach of children

Manufactured by:

BASF Group Headquarters
67056 Ludwigshafen - Germany
International Emergency Number: +49 180 2273-112.

Distributed by:

Precision Farming Holdings Limited,
P.O.BOX 34793, Unit 3B Apollo Business Park,
Mwembeshi Road Extension, Lusaka, Zambia. +260 211 847755/56-58.



NET WEIGHT: 1 kg

Date of Manufacture:

Expiry date:

Batch/Lot No.:

ZEMA PRODUCT NUMBER:

81078930 NVA 2022-05-0323-1145

® = Trademark for BASF



WARNING

