

MAKHTESHIM-AGAN SA (PTY) LTD

PROMANEX 360 EC

Reg no L 6740 Wet / Act 36 / 1947

A selective emulsifiable concentrate pre-emergence herbicide for the control of weeds as listed in potatoes and sunflowers.

'n Selektiewe emulsifiseerbare konsentraat vooropkom onkruidodder vir die beheer van onkruid soos hieronder aangedui in aartappels en sonneblom.

ACTIVE INGREDIENTS / AKTIEWE BESTANDDELE

Alachlor (chloroacetanilide).....240 g / l.....Alachlor (chloorasetanilied)
Prometryn (triazine).....120 g / l.....Prometrien (triasien)

NET VOLUME / NETTO INHOUD

.....

REGISTRATION HOLDER / REGISTRASIEHOUER

Makhteshim-Agan SA (Pty) LTD

Reg no. 92/01741/07

21 Viben Street

BRACKENFELL

7560

Batch number.....Lotnommer

Date of Manufacture.....Datum van vervaardiging

UN No: 1307



**HARMFUL
SKADELIK**



WARNINGS

Handle with care.

Poisonous if swallowed.

Store in a cool dry place away from food, feeds, seed, fertilizers and other agricultural chemicals.

Flammable. Keep away from open flames.

Can be toxic to aquatic organisms.

Keep out of reach of children, uninformed persons and animals.

Aerial application:

Aerial application of **PROMANEX 360 EC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 0118 (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 30 litres 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 aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 20 to 30 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 350 to 400 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:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - b) 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.

Although this remedy has been tested extensively 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 with other substances not indicated on the label; the occurrence of resistance of weeds against the remedy concerned and 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 of 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 fumes or spray mist.

Wash immediately after accidental skin contact with plenty of water and soap.

In case of contact with eyes, wash out with plenty of water for at least 15 minutes. Get medical attention if necessary.

Do not eat, drink or smoke whilst mixing or applying or before hands and face are washed.

Prevent contamination of food, feeds, drinking water and eating utensils.

Prevent drift onto other crops, grazing, rivers, dams and areas not under treatment.

Clean applicator after use and do not dispose of wash water where it can contaminate food, grazing, rivers, dams, boreholes or any other area not under treatment.

IMPORTANT: TRIPLE RINSING

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 container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the spray tank and destroy the empty container in the prescribed manner. Do not re-use the empty container for any other purpose.

USE RESTRICTIONS

- To avoid possible damage to follow on crops the following waiting periods should be adhered to:

Potatoes, sunflower, cotton.....	nil
Carrots (Western Cape).....	nil
Peas (Southern Cape).....	nil
All other crops.....	6 months

- **PROMANEX 360 EC** must preferably be applied directly after planting, but within 5 days after planting before soil cracking or plant emergence.
- Prolonged adverse climatic conditions such as excessive rainfall, cold wet conditions, etc can cause some leaf discoloration or even partly stunted plants. These symptoms will disappear and will have no effect on yield.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY

PROMANEX 360 EC is compatible with **ALANEX 480 CS** (Reg no. L 6468)

MIXING INSTRUCTIONS

Half fill the spray tank with clean water.

Add the required amount of **PROMANEX 360 EC** to the tank while agitating. Fill the tank with clean water while agitation is kept up.

APPLICATION

1. GENERAL

PROMANEX 360 EC must be applied on a fine even, firm seedbed which is free of any growing weeds.

Application should take place preferably at planting or just thereafter, but definitely within 5 days after planting.

Rain or irrigation of at least 10-15 mm is necessary, before weeds emerge, to leach the **PROMANEX 360 EC** into the weed germination zone in the top layer of the soil.

If it does not rain and weeds start to emerge, a shallow cultivation can be done to destroy the weeds and to mix the herbicide with the top 10-20 mm soil.

2. GROUND APPLICATION

PROMANEX 360 EC can be applied by any medium or high volume applicator, provided it is fitted with an efficient agitator and provided it can deliver at least 200 l spray mixture per ha which is spread evenly over the target area. To achieve this the spray boom should be fitted with flat fan nozzles and the applicator should be correctly calibrated.

3. AERIAL APPLICATION

PROMANEX 360 EC can be applied aerially provided that the spray mixture is distributed evenly over the target area and that the loss of spray material is kept to a minimum during application.

To achieve this, the following conditions must be adhered to:

- Use a conventional spray boom fitted with flat fan nozzles e.g SS 6515 or a similar type.
- Apply at least 30 l water per ha.
- A minimum of 20-30 droplets per cm² must be recovered on the target area.
- Use a droplet spectrum with a VMD of 450 micron.
- Maintain a flying height of 2 m above the target area at windspeeds of 0 – 8 km / h and 3 m at windspeeds of 8 – 15 km / h.
- Do not spray when wind speed exceeds 15 km / h.
- The difference between the wet-and dry bulb reading as determined by a whirling hygrometer should not exceed 8°C.
- Do not spray during the heat of the day.
- Ensure that the lands are accurately marked.

Get assurance from the aerial applicator that the above mentioned conditions will be adhered to.

Application rates for Potatoes and Sunflowers

CLAY %	PROMANEX 360 EC (l / ha)	REMARKS
0 – 15 16 – 30 >30	5,5 – 6,5 l 6,5 – 7,5 l 7,5 l	Application rates as indicated, are for overall application. For band application, application rates should be decreased accordingly.

For control of additional grasses ALANEX 480 CS can be used in a tank mix with Promanex 360 EC as follows:

CLAY %	PROMANEX 360 EC	ALANEX 480 CS (l / ha)	REMARKS
0 – 30 30 – 40	5,5 6,5	2,0 2,0	Application rates as indicated are for overall application. For band application, application rates should be decreased accordingly.

WEED SPECTRUM / ONKRUIDSPEKTRUM

WEED	COMMON NAME	ALGEMENE NAAM
<i>Amaranthus deflexus</i>	Perennial pigweed	Meerjarige misbrede
<i>Amaranthus hybridus</i>	Common pigweed	Gewone misbredie
<i>Amaranthus spinosus</i>	Thorney pigweed	Doringmisbredie
<i>Amaranthus thunbergii</i>	Red pigweed	Rooimisbredie
<i>Brachiaria eruciformis</i>	Sweet signal-grass	Litjie-sinjalgras
<i>Chenopodium album</i>	White goosefoot	Withondebossie
<i>Chenopodium carrinatum</i>	Green goosefoot	Groenhondebossie
<i>Digitaria sanguinalis</i> *	Crab fingergrass	Kruisvingergras
<i>Panicum schinzii</i>	Sweet buffalo grass	Soetbuffelgras
<i>Portulaca oleracea</i>	Purslane	Porslein
<i>Schkuhria pinnata</i>	Dwarf marigold	Kleinkakiebos
<i>Tagetes minuta</i>	Tall khakiweed	Langkakiebos

*Control only from 6,5 l / ha and more
Beheer alleenlik vanaf 6,5 l / ha en meer.

WAARSKUWINGS

Hanteer versigtig.

Giftig indien ingesluk.

Stoor in 'n droë plek weg van voedsel, voer, saad, kunsmis en ander landbouchemiese middels.

Vlambaar. Hou weg van vlamme.

Kan giftig wees vir waterorganismes.

Hou buite bereik van kinders, oningeligte persone en diere.

Lugtoediening:

PROMANEX 360 EC kan slegs deur 'n geregistreerde Lugbespuitingsperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS Kode 0118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengsel volume van 30 liter per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 20 tot 30 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 350 tot 400 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieg hoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik nie, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binnste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihygrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/h oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
 - a) verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - b) skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alles toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-klimaats-en bergingstoestande; kwaliteit van verdunningswater; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoming van weerstand teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir die nadelig effek op die mens of diere of vir gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMAATREËLS

Moet nie dampe of spuitnewel inasem nie.

Was die vel dadelik met seep en water indien dit per ongeluk met die middel in aanraking kom.

Indien die middel per ongeluk in die oë beland moet die oë met groot hoeveelhede water vir ten minste 15 minute uitgespoel word. Raadpleeg die geneesheer indien nodig.

Moet nie eet, drink of rook terwyl gemeng of tydens toediening of voordat hande en gesig gewas is nie.

Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

Verhoed dat die spuitnewel oorwaai na ander gewasse, weiding, riviere, damme en gebiede wat nie behandel word nie.

Maak die toedieningsapparaat deeglik skoon na gebruik.

Moet nie die waswater weggooi waar dit voedsel, weiding, riviere, damme of enige ander gebied wat nie onder behandeling is nie, kan besoedel.

BELANGRIK: DRIEDUBBELE UITSPOELING

Keer die leë houer om oor die spuit of mengtenk en dreineer vir ten minste 30 sekondes nadat die vloei tot 'n gedrup verander het.

Spoel die leë houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die inhoud van die houer.

Gooi die spoelwater by die inhoud van die spuittenk. Vernietig die leë houer daarna op die voorgeskrewe manier.

Moet nooit die leë houer vir enige ander doel gebruik nie.

GEBRUIKSBEPERKINGS

- Om moontlike beskadiging van opvolggewasse te voorkom moet die volgende wagperiodes gehandhaaf word:

Aartappels en Sonneblom.....	Geen
Geelwortels (Wes Kaap).....	Geen
Ertjies (Suid Kaap).....	Geen
Alle ander gewasse.....	6 Maande

- **PROMANEX 360 EC** moet verkieslik direk na plant toegedien word, maar verseker binne 5 dae na plant voor die gewas deur die grond breek.
- Langdurige blootstelling aan ongunstige klimaatstoestande soos oormatige reën, koue, nat toestande, ens. kan veroorsaak dat die blare verkleur of dat gedeeltelike verdwergde plante mag voorkom.
- Hierdie simptome sal egter verdwyn en het geen invloed op opbrengs nie.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

VERENIGBAARHEID

PROMANEX 360 EC is verenigbaar met ALANEX 480 CS (Reg no L 6468)

VERMENGING

Maak die spuittenk halfvol met skoon water.

Voeg die verlangde hoeveelheid **PROMANEX 360 EC** in die tenk terwyl geroer word. Vul die tenk met water terwyl gedurigdeur geroer word.

TOEDIENING

1. ALGEMEEN

- **PROMANEX 360 EC** moet op 'n fyn, ferm, eweredige saadbed waarop geen onkruid groei toegedien word.
- Toediening moet verkieslik geskied tydens plant of net daarna maar verseker binne 5 dae na plant maar voor die gewas die grond kraak.
- Aanhoudende reën of besproeiing van ten minste 10-15 mm is nodig om die **PROMANEX 360 EC** in die boonste grondlaag waar die onkruid ontkiem, te loog.
- Indien dit nie reën nie en die onkruid begin ontkiem, kan 'n vlak bewerking uitgevoer word om die onkruid te vernietig en die onkruiddoder met die boonste 10-20 mm grondlaag te vermeng.

2. GRONDTOEDIENING

PROMANEX 360 EC kan deur middel van enige medium – of hoë volume toediengsapparaat toegedien word, mits dit toegerus is met 'n doeltreffende roermeganisme en dit in staat is om 200 l spuitmengsel per ha eweredig oor die teikenoppervlak te versprei.

Om hieraan te voldoen, moet die spuitbalk toegerus wees met platwaaierspuitpunte en moet die spuitapparaat gekalibreer wees.

3. LUGTOEDIENING

PROMANEX 360 EC kan deur middel van lugtoediening toegedien word, mits die spuitmengsel eweredig oor die teikenoppervlak versprei word en die wegdrywing van die spuitnewel tot 'n minimum beperk word.

Om hieraan te voldoen, moet die volgende voorwaardes nagekom word:

- Gebruik slegs 'n konvensionele spuitbalk toegerus met platwaaier spuitpunte bv. SS 6515 of soortgelyke spuitpunte.
- Dien in ten minste 30 l water per ha toe.
- 'n Minimum van 20 – 30 druppels per cm² moet op die teikengebied herwin word.
- Gebruik 'n druppelspektrum met 'n VMD van 450 mikron.
- Handhaaf 'n vlieg hoogte van 3 m bokant die teikengebied by windsnelhede van 0-8 km / u en 2 m by windsnelhede van 8 – 15 km / u. Staak bespuiting as windsnelheid 15 km / u oorskry.

- Die verskil tussen die nat en die droë bol lesing soos bepaal deur 'n swaaihygrometer moet nie meer as 8°C wees nie.
- Moet nie tydens die middaghitte spuit nie.
- Dra sorg dat die lande akkuraat gemerk is.

Dit is noodsaaklik dat 'n versekering van die lugbespuitingsoperateur verkry word dat aan bogenoemde vereistes voldoen sal word.

TOEDIENINGSHOEVEELHEDE VIR AARTAPPELS EN SONNEBLUM

% KLEI	PROMANEX 360 EC (l / ha)	OPMERKINGS
0-15 16-30 > 30	5,5 – 6,5 l 6,5 – 7,5 l 7,5 l	Toedieningshoeveelhede soos aangedui is vir algehele toediening. Vir baanbehandeling moet die toedieningshoeveelhede dienooreenkomstig verminder word.

Vir die beheer van adisionele grasse kan ALANEX 480 CS soos volg in 'n tenkmengsel met PROMANEX 360 EC gebruik word:

% KLEI	PROMANEX 360 EC (l / ha)	ALANEX 480 CS (l / ha)	OPMERKINGS
0-30 30-40	5,5 6,5	2,0 2,0	Toedieningshoeveelhede soos aangedui is vir algehele toediening. Vir baanbehandeling moet die toedieningshoeveelhede dienooreenkomstig verminder word.