

EPTC S EC

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

GEbruiksaanwysings ingesluit
VERWYS NA BESONDERHEDE
SOOS OP HOUER / SAK GEDRUK

Lotnommer
Datum van vervaardiging

EPTC S EC
HERBICIDE

Reg. No. L10538, Act/Wet No. 36 of/van 1947

1: 11/02/2019

A selective, soil incorporated, emulsifiable concentrate herbicide with added safener for the control of annual grasses, nutsedges and certain broadleaf weeds as specified in the crops as listed.

'n Selektiewe, groningewerkte emulgeerbare konsentraat onkruidodder met beveiliging vir die beheer van eenjarige grasse, uintjies en sekere breëblaaronkruiden soos gespesifiseer in die gewasse soos aangedui.

HRAC HERBICIDE GROUP CODE	N	HRAC ONKRUIDDODERGROEPKODE
ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL		
EPTC (thiocarbamate)	720 g/l	EPTC (tiokarbamaat)

Registration Holder / Registrasiehouer
Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.
Reg. No. 2000/010819/07
P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika

20L

UN Number: 2992











HARMFUL / SKADELIK




WARNINGS

- Poisonous if swallowed.
- May cause irritation to eyes and skin.
- Harmful to fish.
- Can be corrosive to zinc and other metal equipment.
- Store under lock and key in a cool place.
- **FLAMMABLE** – Do not store or open container near open flame.
- Store away from food, feed, fertilizer and other agricultural products.
- Keep out of reach of children, uninformed persons and animals.
- Keep unused **EPTC S EC** in its original container with the cap tightly closed.
- In case of poisoning, **call a doctor and show this label to him.**

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity 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, 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.

PRECAUTIONS

- Do not inhale fumes or spray mist.
- Avoid skin and eye contact by wearing protective clothing when mixing the product.
- In case of accidental eye contact, flush with plenty of water and get medical attention if necessary.
- Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter rinse the empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsate to the contents of the spray tank.
- Destroy the empty container by perforation and flattening and do not use for any other purpose.

SYMPTOMS OF HUMAN POISONING

Irritation effects on skin and mucous membranes are the common reactions. May cause eye irritation. May cause skin irritation and allergic reaction. If large quantities are ingested, nausea, vomiting, abdominal distress and cholinesterase inhibition may occur.

First aid: Contains petroleum distillate as solvent. Do not induce vomiting, give 2 glasses of water to drink. If vomiting occurs, give more water and ensure that vomitus does not get inhaled. Call for immediate medical assistance.

Skin contact: Remove contaminated clothing as well as shoes and leather goods. Wash body with non-abrasive soap and lots of water. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical advice if necessary.

Eye contact: **Flush eyes immediately with large amounts of clean water, holding eyelids apart, for approximately 15 minutes. Occasionally lift the upper and lower lids. If eye irritation persists, get medical attention.**

Inhalation: Remove patient to a well ventilated area and loosen clothing around the neck. Perform artificial respiration and administer oxygen if necessary. Keep patient warm and calm.

Ingestion: **Do not induce vomiting.** Get medical attention immediately. Administration of gastric lavage or oxygen should be performed by qualified medical personnel.

NOTE TO PHYSICIAN

Atropine by injection is antidotal. Treat symptomatically and supportively. Keep patient under observation. Show the MSDS to medical personnel immediately.

DIRECTIONS FOR USE

Use only as indicated.

USE RESTRICTIONS

EPTC S EC is a herbicide which must be incorporated into the soil just before planting and thoroughly mixed with the upper 100 - 150 mm soil layer before planting takes place, or it should be injected into the soil at planting time with a suitable implement. Incorporation should take place within minutes of application, and preferably in one operation.

- **EPTC S EC** should only be used if soil conditions are suitable for fast germination.
- Do not apply to seed maize before consulting the seed firm concerned.
- Do not use as an overall spray on kidney beans.

MIXING INSTRUCTIONS

Half-fill the spray tank with suitable water, then add the required amount of **EPTC S EC** to the water in the tank while agitating. Fill the spray tank to the desired volume. Should tank mixtures with other herbicides be made, follow the respective manufacturers' label recommendations. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

COMPATIBILITY

The compatibility of **EPTC S EC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

SOIL PREPARATION

The seedbed must be well prepared and free from unnecessary clods, crop residues and weeds. All growing weeds, particularly nutsedge, must be destroyed before application, preferably by means of a tine implement.

METHOD OF APPLICATION

Band application:

Use an applicator which will apply **EPTC S EC** in the recommended manner. Calibrate carefully under actual field conditions before use. Check application rates during operation. To obtain a 450 mm wide band of weed control, apply **EPTC S EC** 40 - 60 mm deep using a suitable applicator, ie, four sub-surface streams 80 and 170 mm on either side of the sown rows, or by means of a suitable sweep mounted on the planter.

Overall application:

For overall weed control apply **EPTC S EC** as an overall spray to a well prepared seedbed free of growing weeds. Ensure that the herbicide is thoroughly mixed within minutes, into the top 100 -150 mm of the soil. Application and incorporation should preferably be done in one operation. Incorporation may be achieved by using a tandem disc or offset disc set to cut to a depth of at least 150 mm, operated at 7 - 8 km / h, followed by a spike tooth harrow or some levelling device which extends beyond the ends of the disc.

For thorough mixing, disc twice (cross disc) as soon as possible. Prior to the second discing, adjust the disc to prevent cutting deeper than the first discing. Apply the recommended quantity of **EPTC S EC** in 200 - 450 l water / ha. Seeding may take place immediately after application; this will ensure the maximum period of control. If some form of cultivation takes place after application, ensure that the soil is not disturbed beyond the incorporation depth.

RECOMMENDATIONS

CROP	% CLAY	DOSAGE ℓ /ha	REMARKS
MAIZE (INCLUDING SWEET CORN)	0 – 10	2.0	Overall application: Planting may take place any time after application, but should be done as soon as possible in order to the maximum period of weed control, except in the case of lucerne where 5 days should elapse between application and planting. If a second cultivation is needed, do not cultivate deeper than the initial depth of incorporation. For extended broadleaf weed control in maize, atrazine SC may be applied in combination with EPTC S EC , Incorporate as above, or apply separately in a band, or as an overall application. In both cases 2/3 of the recommended atrazine SC rate has been found to be adequate in controlling most broadleaf weeds. Band application: To obtain a 450 mm wide band of weed control, apply EPTC S EC 40 – 60 mm deep using a suitable applicator, ie. Four sub-surface streams 80 mm and 170 mm on either side of the planted rows, or by means of a suitable sweep mounted on the planter. NB: Consult the atrazine SC label for details regarding warnings, precautions, restrictions and rates
	11 – 15	2.5	
	16 – 20	3.0	
	21 – 25	3.5	
	26 – 30	4.0	
DRY BEANS <i>(Phaseolus vulgaris)</i> GREEN BEANS (Cultivar Cape)	0 – 10	1.5	Overall application: Apply recommended rates and incorporate as described for maize. Band application: Apply only with sub-surface streams as recommended for band application. Initial retardation may occur but plants will develop normally. NB: Too high an application rate may cause damage to early green bean cultivars eg. Provider and Wintergreen.
	11 – 15	2.0	
	16 – 20	2.5	
	21 – 30	3.0	
SUNFLOWERS	0 – 15	Not recommended	Overall application: NB: Retardation may occur in an early stage but plants will recover normally by harvest. To prevent initial retardation, sunflowers should be planted 7 days after application. EPTC S EC may only be used on Kortrus selections
	16 – 20	2.0	
	21 – 30	3.0	
POTATOES	0 – 15	3.5	Overall application: Apply recommended rates and incorporate as described for maize. Band application: In the case of row application, place the fertilizer and seed in position and cover with a 50 mm layer of soil. Ensure that the furrows are not steeper than 45° and are able to retain the spray. Apply as a band over the row and close the furrow within minutes in order to incorporate the EPTC S EC.
	16 – 30	5.3	
	> 30	Not recommended	

WEEDS CONTROLLED BY EPTC S EC:

Nutsedges (pre-emergence only)

Cyperus esculentus

Cyperus rotundus

Yellow nutsedge

Purple nutsedge

Grasses (pre-emergence only)

Brachiaria eruciformis

Chloris pycnothrix

Digitaria sanguinalis

Eleusine indica

Panicum schinzii

Setaria pallide-fusca

Setaria verticillata

Sorghum bicolor

Sorghum verticilliflorum

Tragus racemosus

Urochloa panicoides

Sweet signal grass

Spiderweb Chloris

Crab finger-grass

Goose grass

Sweet buffalo grass

Red bristle grass

Sticky bristle grass

Wild grain sorghum

Johnson grass

Large carrot-seed grass

Herringbone grass

Control of the following broadleaf weeds may vary depending on climatic conditions. These weeds will be controlled only if the correct dosage rate has been used and conditions for control are good, i.e. well prepared and fine seedbed followed by favourable soil conditions which benefit seed germination.

Amaranthus deflexus

Amaranthus hybridus

Bidens pilosa

Chenopodium album

Cleome monophylla

Datura stramonium

Perennial pigweed

Common pigweed

Blackjack

White goosefoot

Spindlepod

Thorn apple

WAARSKUWINGS

- Giftig indien ingesluk.
- Mag oog- en velirritasie veroorsaak.
- Giftig vir visse.
- **VLAMBAAR** - moet nie naby oop vlamme opberg nie.
- Bêre weg van voedsel, voer, kunsmis en ander landbouprodukte.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Bêre ongebruikte **EPTC S EC** in oorspronklike houers wat dig toegemaak is.
- In geval van vergiftiging, ontbied 'n geneesheer en toon hierdie etiket aan hom/haar.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle 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 voorkoms van weerstand van die onkruid 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 nadelige effek op mens of dier of vir 'n 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.

VOORSORGMATREËLS

- Moet nie spuitnewel inasem nie.
- Vermyn kontak met die vel en oë deur beskermende oorklere te dra wanneer die produk gemeng word.
- Indien produk in aanraking met die oë kom, spoel met water en kry mediese aandag indien nodig.
- Was met seep en water na gebruik en toevallige velkontak; so ook besoedelde klere na gebruik.
- Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat hande en gesig gewas is nie.
- Vermyn wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en plekke wat nie onder behandeling is nie.
- Maak toedieningsapparaat skoon na gebruik. Uitspoelwater moet nie gewasse, weiveld, riviere, damme en boorgate besoedel nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.
- Spoel die leë houer **drie keer** uit op die volgende manier: Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n drup verminder 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 voordat die houer op die voorgeskrewe wyse vernietig word.
- Vernietig die leë houer, moet vir geen ander doel gebruik nie.

SIMPTOME VAN MENSLIKE VERGIFTING

Irritasie van vel en slymvlies is tipiese reaksies. Mag irritasie van die oë veroorsaak. Dit mag ook irritasie van die vel en 'n allergiese reaksie veroorsaak. As groot hoeveelhede mondeliks ingeneem word, kan dit naarheid, braking, abdominale teerheid en kolienesterase inhibering veroorsaak.

NOODHULPBEHANDELING

Noodhulp: Bevat petroleumdistillaat as oplosmiddel. Moenie braking induseer nie, gee 2 glase water om te drink. Indien braking plaasvind, gee nog water en verseker dat braaksel nie ingeasem word nie. Kry mediese hulp.

Velkontak: Verwyder besoedelde klere, sowel as skoene en leeritems. Was die hele lyf met 'n sagte seep en baie water. Moenie 'n skuurmiddel gebruik nie. Persone wat noodhulp toedien, moet handskoene dra om selfkontaminasie te voorkom. Kry mediese advies indien benodig.

Oogkontak: **Was oë onmiddellik uit met groot hoeveede skoon water, vir ongeveer 15 minute. Lig die onderste en boonste ooglede gedurig op. Indien oogirritasie aanhou, kry mediese hulp.**

Inaseming: Verwyder die persoon van die bron van vergiftiging na 'n goed geventileerde area en maak klere om die nek los. Pas kunsmatige asemhaling toe en dien suurstof indien nodig toe. Hou pasiënt warm en rustig.

Mondelike inname: **Moenie braking induseer nie.** Ontbied onmiddellik mediese hulp. Toediening van maagspoeling of suurstof moet deur opgeleide mediese personeel gehanteer word.

NOTA AAN GENEESHEER

Spuut atropien in as teengif. Behandel simptome en ondersteunend. Hou pasiënt onder observasie. Wys die MSDS onmiddellik aan mediese personeel.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

GEBRUIKSBEPERKINGS

EPTC S EC is 'n onkruidodder wat net voor planttyd in die grond ingewerk en deeglik met die boonste 100 - 150 mm grondlaag vermeng moet word voordat geplant word; of dit moet tydens planttyd met 'n geskikte implement in die grond ingespuut word. Inwerking moet binne minute na toediening geskied, verkieslik onmiddellik.

- **EPTC S EC** moet slegs gebruik word indien toestande ideaal is vir vinnige ontkieming.
- Moet nie op saadmielies gebruik sonder die toestemming van die betrokke saadmaatskappy nie.
- Moet nie as 'n algehele bespuiting op nierbone gebruik nie.

MENGINSTRUKSIES

Maak die spuittenk halfvol met geskikte water en voeg die benodigde hoeveelheid EPTC S EC by terwyl water aanhoudend geroer word. Maak die spuittenk tot die finale volume vol. Roer goed om vermenging te verseker voordat die mengsel toegedien word.

As tenkmengsels met ander middels gemaak word, moet die aanbevelings van die betrokke vervaardiger se etiket gevolg word. **Die tenkmengsel moet onmiddellik uitgespuut word en nie toegelaat word om oornag in die spuittenk te staan nie.** Die spuittoerusting moet aan die einde van toediening deeglik uitgewas word.

VERENIGBAARHEID

Die verenigbaarheid van **EPTC S EC** met ander produkte hang van die formulering van die betrokke produkte af, asook van die kwaliteit van die spuitwater. Deurdat formulerings van tyd tot tyd verander word dit aanbeveel om 'n fisiese verenigbaarheidstoets te doen voordat die tenkmengsel gemaak word. **EPTC S EC** is verenigbaar met atrasien SC.

VOORBEREIDING VAN DIE GROND

Die saadbed moet goed voorberei word en vry van onnodige kluite, plantreste en onkruidwees. Alle lewende onkruidgroei, veral uittjies, moet voor toediening verkieslik met 'n tandimplement doodgework word.

METODE VAN TOEDIENING

Strooktoediening:

Gebruik slegs 'n toediener wat **EPTC S EC** volgens die aanbevole manier kan toedien. Kalibreer noukeurig onder werklike toestande op die land voordat dit toegedien word. Kontroleer toedieningshoeveelhede terwyl toegedien word. Om 'n onkruidvrye strook van 450 mm oor die ry te verkry, dien **EPTC S EC** 40 - 60 mm diep met 'n geskikte toediener toe, d.i. vier ondergrondse straaltpies 80 en 170 mm weerskante van die saadrye onderskeidelik, of met behulp van 'n geskikte vlerkskaarimplement wat op die planter gemonteer word.

Algehele toediening:

Vir algehele onkruidbeheer dien **EPTC S EC** toe as 'n algehele bespuiting op 'n goed voorbereide saadbed, vry van groeiende onkruid. Verseker dat dit deeglik met die boonste 100 - 150 mm grond binne minute na toediening gemeng word. Toediening en die inwerking moet verkieslik saam gedoen word. Inwerk kan deur middel van 'n tandem- of wisselgangskotteleg tot 'n diepte van ten minste 150 mm teen 7 - 8 km/h geskied, gevolg deur 'n omgekeerde eg of enige tipe sleepyster wat breër sleep as die skotteleg.

Vir deeglike vermenging, bewerk twee keer (kruis en dwars) so gou moontlik. Voor die tweede bewerking, verstel die eg om te voorkom dat dit dieper as die eerste bewerking sny. Dien die aanbevole hoeveelheid van **EPTC S EC** in 200-450 l water/ha toe. Die saad kan onmiddellik na toediening geplant word, maar moet so gou moontlik geplant word om die maksimum tydperk van onkruidbeheer te verkry. Indien dit noodsaaklik is om na toediening en inwerking te skoffel, moet die grond nie dieper as die diepte waarop die onkruidodder ingewerk is, bewerk word nie.

AANBEVELINGS

GEWAS	% KLEI	DOSIS ℓ/ha	OPMERKINGS
MIELIES (INGESLUIT SUIKERMIELIES)	0 – 10	2.0	Algehele toediening: Daar kan enige tyd na toediening geplant word, maar verkieslik moet daar so gou as moontlik uitgeplant word om die waarde van toediening ten volle te gebruik, behalwe in lusern waar daar eers 5 dae na toediening geplant mag word. Indien 'n tweede bewerking benodig word, moet nie dieper as die oorspronklike vermengingsdiepte bewerk nie.
	11 – 15	2.5	
	16 – 20	3.0	
	21 – 25	3.5	Strooktoediening: Om 'n 450 mm wye onkruidbeheerstrook te kry, dien EPTC S EC 40 – 60 mm diep toe deur gebruik te maak van 'n toegepaste toedieningsapparaat, dws. vier ondergrondse spuite, 80 mm en 170 mm op albei kante van geplante rye, of d.m.v. 'n geskikte 'sleepketting' wat op die planter gemonteer word.
	26 – 30	4.0	
DROËBONE (<i>Phaseolus vulgaris</i>) GROENBONE (Kultivar Cape)	0 – 10	1.5	Algehele toediening: Dien die aanbevole dosisse toe en werk in soos beskryf. Strooktoediening: Dien slegs toe met inspuittande soos beskryf. Aanvanklike groeivertraging mag voorkom maar plante sal normaalweg herstel. LET WEL: Te hoë toedieningsdosis mag tot gewasskade lei, spesifiek op vroeë groenboonkultivars bv. Provider en Wintergreen.
	11 – 15	2.0	
	16 – 20	2.5	
	21 – 30	3.0	
SONNEBLOMME	0 – 15	Nie aanbeveel nie	Algemene toediening: NB: Vertraagte gewasontwikkeling mag in 'n vroeë stadium gebeur, maar plante sal herstel teen oestyd. Om hierdie probleem te vermy, moet sonneblomme eers 7 dae na toediening geplant word. EPTC S EC mag slegs op Kortrus kultivars gebruik word.
	16 – 20	2.0	
	21 – 30	3.0	
AARTAPPELS	0 – 15	3.5	Algehele toediening: Dien die aanbevole hoeveelheid EPTC S EC as 'n algehele bespuiting toe en werk in soos by mielies beskryf. Strooktoediening: In geval van strooktoediening moet die kunsmis en saad in posisie geplaas word en met 'n 50 mm grondlagie toegemaak word. Verseker dat die plantvore nie steiler as 45° is nie en dit moet die bespuiting behou, en nie afloop nie. Dien toe as 'n strook oor die ry en maak die plantvoor binne minute toe om die EPTC S EC te bedek.
	16 – 30	5.3	
	>30	Nie aanbeveel nie	

ONKRUIDE WAT DEUR EPTC S EC BEHEER SAL WORD :

Uintjies (slegs voor-opkoms)

Cyperus esculentus

Geeluintjie

Cyperus rotundus

Rooiuintjie

Grassoorte (slegs voor-opkoms)

Brachiaria eruciformis

Chloris pycnothrix

Digitaria sanguinalis

Eleusine indica

Panicum schinzii

Setaria pallide-fusca

Setaria verticillata

Sorghum bicolor

Sorghum verticilliflorum

Tragus racemosus

Urochloa panicoides

Litjiesinjalgras

Spinnerak Chloris

Kruisvingergras

Jongosgras

Soet buffelsgras

Rooi borselgras

Klitsborselgras

Wilde graansorghum

Gewone wildesorghum

Grootwortelsaadgras

Beesgras

Beheer van die volgende breëblaaronkruid sal wissel afhangende van weerstoestande. Hierdie onkruid sal slegs beheer word indien die regte hoeveelheid gebruik word en indien toestande gunstig is, d.w.s. goed voorbereide en fyn saadbed gevolg deur gunstige grondtoestande wat saadontkieming sal bevoordeel.

Amaranthus deflexus

Amaranthus hybridus

Bidens pilosa

Chenopodium album

Cleome monophylla

Datura stramonium

Meerjarige misbredie

Kaapse misbredie

Knapsekêrel

Withondebossie

Rusperbossie

Stinkblaar