

For full details see enclosed pamphlet.
Vir volledige besonderhede sien aangehegte pamflet

Read the label carefully before opening



TYKATO® 480 EC

Reg. No. L10656, Act No. 36 of 1947

Reg. Nr. L10656, Wet Nr. 36 van 1947

Namibian Reg. No. / Namibiese Reg. Nr N-AR 2061

A PRE-PLANT SELECTIVE SOIL INCORPORATED EMULSIFIABLE CONCENTRATE
HERBICIDE FOR PRE-EMERGENCE CONTROL OF RYEGRASS IN BARLEY, CANOLA,
AND WHEAT.

'N VOORPLANT SELEKTIEWE GROND-INGEWERKTE EMULGEERBARE KONSENTRAAT
ONKRUIDDODER VIR VOOROPKOMS BEHEER VAN RAAIGRAS OP GARS, KANOLA EN
KORING.

HERBICIDE GROUP CODE K1 ONKRUIDDODERGROEPKODE

Active ingredient:

Trifluralin (dinitroaniline).....480 g/l

Aktiewe bestanddeel:

Trifluralin (dinitroanilien)..... 480 g/l

Net Volume



Netto Volume



REGISTRATION HOLDER / REGISTRASIEHOUER:

Nulandis® (A division of AECI Limited) / Nulandis® ('n Afdeling van AECI Beperk)

Reg. No. / Nr. 1924/002590/06

P.O. Box / Posbus 14418

Witfield, 1467

Tel : (011) 823 8000

www.nulandis.com

TYKATO® is a registered trademark of AECI Limited (Nulandis® a division of AECI Limited)/ is die geregistreerde handelsmerk van AECI Beperk (Nulandis® 'n afdeling van AECI Beperk)

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL
0861 555777 / 0824468946

Batch No:

Lotnommer:

Date of Manufacture:

Vervaardigingsdatum:

UN No./VN Nr. 2929, Toxic liquid flammable



**CAUTION
VERSIGTIG**



Pamphlet

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CAUTION

WARNINGS:

Handle product with caution.

May be fatal if swallowed.

Toxic if inhaled.

FLAMMABLE – keep away from heat and open flames.

When in contact, it may cause serious eye damage and skin irritation.

Avoid contact with skin since the product is an irritant and may cause allergic reaction.

Very toxic to fish and other aquatic organisms.

Store away in a cool, dry, well-ventilated place, away from food, feed, seed, fertilizers and other agricultural remedies.

Keep out reach of children, uninformed persons and animals.

Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing. In case of poisoning – CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM/HER.

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 CLIMATIC AND STORAGE CONDITIONS; QUALITY OF DILUTION WATER; COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF WEEDS 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 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 REGISTRATION HOLDER IN THE EVENT OF ANY UNCERTAINTY.
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PRECAUTIONS:

Do not inhale fumes or spray mist.

Avoid skin and eye contact.

Wear face shield and rubber gloves when handling concentrate and during mixing.

In case of accidental contact with skin wash immediately with plenty of water. In the event of accidental eye contact rinse cautiously with water for several minutes and flush eyes with clean water and get medical attention, if necessary.

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

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

Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.

Rinse empty container three times with a volume of water equal to a minimum of 30 % of that of the container and add rinsings to the contents of the spray tank before disposing of the container.

Destroy the empty container and dispose of it in a safe manner. Do not use for any other purpose.

The triple-rinsed container may be sent to an approved recycling facility for processing.

RESISTANCE WARNING:

For resistance management, **TYKATO 480 EC** is a group code K1 herbicide. Any weed population may contain individuals naturally resistant to **TYKATO 480 EC** and other group code K1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. The resistant weeds may not be controlled by **TYKATO 480 EC** or any other group code K1 herbicides.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with registered products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product

USE RESTRICTIONS:

In addition to the crops mentioned in the “Application Table” below, the following crops may also be planted directly after a treated field has been harvested: Beet, *Brassicaceae*, Carrots, Castor Oil, Celery, Cowpeas, Cucurbits, Fruit Trees, Mint, Oca, Potatoes, Safflower, Sugarcane and Tomatoes.

All other crops require a waiting period of at least 12 months between treatment and planting, except for Grain sorghum which requires a waiting period of 18 months.

Periods of cold weather after planting may lead to phytotoxicity in the crop, e.g. in the case of early season plantings.

TYKATO 480 EC can be used in the crops listed in the “Application Table”, if the following conditions are adhered to;

- Do not use **TYKATO 480 EC** in areas with steep sloped where the possibility exist that treated soil may roll into the plant row.
- Do not use in very stony areas.
- **TYKATO 480 EC** is an excellent graminicide and must be removed completely from the plant row before planting. Failure to do this may lead to crop damage.
- Ensure that the planter throws the **TYKATO 480 EC** treated soil away from the plant row to cover the inter-row areas. Care should be taken to ensure that the planting speed and row spacing is such that the inter-row is covered by the soil that is removed from the row, but that the treated soil is not thrown back into the next plant row.

- Apply **TYKATO 480 EC** on a well prepared seedbed, free of excessive plant material and clods.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY:

The full range of compatibility of **TYKATO 480 EC** with other agricultural remedies is not known. It is advisable to carry out a physical compatibility test prior to application, before **TYKATO 480 EC** is tank-mixed with any agricultural remedy. Consult with your Nulandis distributor in this regard.

APPLICATION INSTRUCTIONS:

TYKATO 480 EC is easily decomposed by sunlight and must therefore be incorporated into the soil immediately (within 10 minutes) after it has been sprayed evenly onto the surface in a minimum of 200 litres water / ha. The most advantageous method is to mount the spray boom in front of the tractor and pull a disc harrow with the same tractor. It is important to incorporate very thoroughly into the top 5 to 10 cm of the soil. Set the discs to penetrate to a depth of 10 to 15 cm.

Shallow incorporation with implements set to cut less than 5 cm deep, may give erratic weed control.

Thorough incorporation may be achieved with P.T.O. driven rotary tillers or an offset or tandem disc (alone or with spike-tooth harrow in tandem), disking the field twice, the second time at right angles with the first time. The tractor speed must be consistent and allow for even distribution.

It is important that clods should be broken up because the weed seeds in untreated clods may germinate uninjured.

TYKATO 480 EC has a long residual action and may be incorporated at any convenient time from 2 to 3 weeks before planting time, before the rush autumn season starts up to the day of planting.

TYKATO 480 EC will not leach out of the soil, not even under conditions of high rainfall or irrigation.

IMPORTANT NOTES:

TYKATO 480 EC is an emulsifiable concentrate that requires mixing with water and is applied as a spray. **TYKATO 480 EC** is a residual, soil-incorporated herbicide which controls *Lolium* sp. by destroying germinating weeds. Established weeds are not controlled.

Weeds that have emerged before sowing can be sprayed with **ERASE 360 SL** (Reg. No. L6206) and/or **ERASE GRANULE** (Reg. No. L7948).

Spraying can, however, also take place separately directly ahead of the planter.

Where minimum tillage is practiced stubble should be burned before application/planting.

As established weeds are not controlled, lands should be free from weeds when **TYKATO 480 EC** is applied.

APPLICATION TABLE:

CROP	SOIL TYPE – CLAY %	DOSAGE / HA	REMARKS
CANOLA	0 – 10 % 11 – 20% >20 %	1,0 ℓ 1.5 ℓ 2.0 ℓ	Apply before planting or sowing and incorporate into the soil within 10 minutes of application for the control of <i>Lolium</i> sp. (Ryegrass).
WHEAT & BARLEY	0 – 25% >25%	1.0 – 2.0 ℓ 1.5 – 2.0 ℓ	Apply as an overall application and incorporate into the soil within 10 minutes of application for the control of <i>Lolium</i> sp. (Ryegrass). NB: DO NOT use in fields which have already been sown with seed but ONLY in fields which are to be planted. Not suited for surface broadcast sown.

ERASE 360 SL and ERASE GRANULE are the registered tradenames of Nulandis® (A division of AECI Ltd.)

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ONKRUIDDODERGROEPKODE K1

Aktiewe bestanddeel:

Trifluralin (dinitroanilien).....480 g/l

REGISTRASIEHOUER:

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VERSIGTIG

WAARSKUWINGS:

Hanteer produk versigtig.

Mag noodlottig wees indien ingesluk.

Giftig indien ingeasem.

VLAMBAAR – hou weg van hitte en oop vlamme.

Mag ernstige oogskade en velirritasie veroorsaak ingeval van kontak.

Vermý kontak met vel aangesien die produk irriterend kan wees en allergiese reaksies kan veroorsaak.

Uiters giftig vir vis en ander waterorganismes.

Berg in 'n koel, droë en goed geventileerde plek, weg van voedsel, voer, saad, bemestingstowwe en ander landboumiddels.

Hou buite bereik van kinders, oningeligte persone en diere.

Herbetreding: Moenie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word. In geval van vergiftiging - ONTBIED 'N GENEESHEER EN STEL HIERDIE ETIKET AAN HOM/HAAR BESKIKBAAR.

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 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 ONKRUIDE TEEN DIE BETROKKE MIDDEL SOWEL AS DIE METODE, TYD EN AKKURAAKTHEID 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.

VOORSORGMAATREËLS:

Moenie dampe of sproeinewel inasem nie.

Vermyn oog- en velkontak.

Dra 'n gesigskerm en rubberhandskoene wanneer konsentraat hanteer word.

Ingeval van toevallige velkontak, was onmiddellik met genoegsame water. In geval van toevallige oogkontak, spoel oë versigtig uit met skoon water vir 'n aantal minute en verkry mediese hulp, indien nodig.

Verhoed besoedeling van voedsel, voer, drinkwater en eetgerei.

Verhoed die wegdrywing van sproeinewel na nie-teiken gewasse, weiding, riviere en damme en ander gebiede wat nie onder behandeling is nie.

Maak spuitapparaat skoon na gebruik en moenie ander gewasse, weiding, riviere of damme met waswater besoedel nie.

Spoel die leë houer driekeer uit met 'n volume water gelykstaande aan 'n minimum van 30% van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word.

Vernietig leë houer en raak daarvan ontslae op 'n veilige manier. Moet dit nie vir enige ander doel gebruik nie. Leë houe wat driekeer uitgespoel is kan aan 'n goedgekeurde verwerkingsaanleg gestuur word.

WEERSTANDSWAARSKUWING:

TYKATO 480 EC is 'n groeppkode K1 onkruidodder. Enige populasie van 'n spesifieke onkruid spesie mag individueel insluit wat 'n natuurlike weerstand teen **TYKATO 480 EC** of enige ander groeppkode K1 onkruidodder het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individueel uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **TYKATO 480 EC** of enige ander groeppkode K1 onkruidodders beheer word nie.

Om weerstand teen onkruidodders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groeppkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruidoddergroeppcodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSBEPERKINGS:

Behalwe die gewasse wat hieronder genoem word, mag die volgende verbou word direk nadat 'n behandelde land ge-oes is: beet, koolgewasse, wortels, kasterolie, akkerbone, pampoengewasse, vrugteboorde, kruisement, okra, aartappels, saffloer, suikerriet en tamaties. Alle ander gewasse vereis 'n wagperiode van minstens **12 maande** tussen behandeling en plant behalwe graansorghum wat **18 maande** vereis. Perodes van koue weer na plant van die gewas mag tot fitotoksiteit lei, bv. vroeë seisoen aanplantings.

TYKATO 480 EC kan gebruik word in die gewasse soos hieronder in die "Toedieningstabel" aangedui, mits die volgende voorwaardes noukeurig nagevolg word:

Moenie **TYKATO 480 EC** gebruik op steil hellings waar die moontlikheid bestaan dat die behandelde grond in die plantry kan inrol nie.

Moenie in baie klipperige grond gebruik nie.

TYKATO 480 EC is 'n uitstekende vooropkom grasodder en moet geheel en al van die plantry verwyder word, voordat die saad geplant word. Indien dit nie gedoen word nie, mag dit lei tot gewasskade.

Verseker dat die planter die **TYKATO 480 EC** behandelde grond van die plantry afgooi om die gebied tussen die plantrye te bedek. Maak seker dat die plantspoed en die ryspasiëring sodanig is dat die tussenry bedek word met grond wat van die plantry verwyder is, maar dat die behandelde grond nie oorgegooi word in die volgende plantry nie.

TYKATO 480 EC moet op 'n goed voorbereide saadbed sonder oormatige plantreste en kluite toegedien word.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

VERENIGBAARHEID:

Die verenigbaarheid van **TYKATO 480 EC** met die volle reeks landboumiddels is nie bekend nie. Dit word egter aanbeveel om 'n fisiese verenigbaarheidstoets te doen vóór toediening, indien **TYKATO 480 EC** in tenkmengsels met ander landboumiddels toegedien sou word. Raadpleeg u Nulandis verspreidingsagent in hierdie verband.

TOEDIENINGS]AANBEVELINGS:

TYKATO 480 EC word maklik deur sonlig afgebreek en moet dus onmiddellik (binne 10 minute) in die grond ingewerk word, nadat dit egalig oor die oppervlak gespuit is, in 'n minimum van 200 ℓ water per hektaar. Die mees voordeligste metode is om die spuitbalk voor op die trekker te monteer, sodat die skotteleg met dieselfde trekker getrek kan word. Dit is belangrik om baie deeglik in die boonste 5 tot 10 cm van die grond in te werk. Stel die skottels sodat dit tot 'n diepte van 10 tot 15 cm penetreer.

Té vlak inwerking deur implemente wat gestel is om minder as 5 cm diep te sny, mag lei tot wisselvallige onkruidbeheer.

Deeglike inwerking kan met 'n krag-as-aangedrewe kapploeg of wisselgang- óf tandemskotteleg (met of sonder tandeg agteraan) verkry word. Bewerk die land tweekeer, met die tweede keer reghoekig tot die eerste keer. Die trekkerspoed moet konsekvent wees om eweredige verspreiding te verseker.

Dit is noodsaaklik dat die kluite opgebreek moet word, sodat die onkruidsade in onbehandelde kluite, ongeskonde mag ontkiem.

TYKATO 480 EC het 'n lang residuele nawerking en mag enige tyd, vanaf 2 tot 3 weke vóór planttyd ingewerk word, voordat die spitswerktyd van die herfs aanbreek, tot op die dag van plant.

TYKATO 480 EC sal nie uit die grond loog nie, selfs nie in gevalle van hoë reënval óf besproeiing nie.

BELANGRIKE NOTAS:

TYKATO 480 EC is 'n emulgeerbare konsentraat wat met water gemeng word en as 'n bespuiting toegedien word.

TYKATO 480 EC is 'n lang nawerkende, grond-ingewerkte onkruidodder wat *Lolium* sp. tydens ontkieming beheer. Dit sal nie gevestigde onkruid beheer nie.

Onkruid wat opgekom het vóór saai kan met **ERASE 360 SL** (Reg. Nr. L6206) of **ERASE GRANULE** (Reg. Nr. L7948) bespuit word.

Toediening kan andersins apart of direk vóór die planter gedoen word.

Brand stoppels vóór toediening / aanplanting in gevalle waar minimum bewerking toegepas word.

Aangesien gevestigde onkruid nie beheer word nie, moet lande vry van onkruid wees vóór **TYKATO 480 EC** toegedien word.

TOEDIENINGSTABEL:

GEWAS	GRONDTIPE – KLEI %	DOSIS	OPMERKINGS
KANOLA	0 – 10 % 11 – 20 % ➤ 20 %	1,0 ℓ 1.5 ℓ 2.0 ℓ	Dien vóór plant of saai toe en inkorporeer binne 10 minute in die grond in vir die beheer van <i>Lolium</i> spp. (Raaigras).
KORING & GARS	0 – 25 % ➤ 25 %	1,0 – 2.0 ℓ 1.5 – 2.0 ℓ	Dien as 'n algehele toediening toe en inkorporeer binne 10 minute in die grond in vir die beheer van <i>Lolium</i> spp. (Raaigras). Moenie op lande gebruik word waar saad alreeds gesaai is nie, maar SLEGS op lande want aangeplant word. Nie geskik vir oppervlak breedwerpige saai nie.

ERASE 360 SL en ERASE GRANULE is die geregistreerde handelsname van Nulandis® ('n Afdeling van AECl Beperk)