WARNINGS:

- This product is harmful through:
  - – Being combustible – no sources of ignition should be allowed in its proximity.
  - – Eye and skin irritation – Avoid contact through careful handling and use of personal protective equipment.
  - – Effects of swallowing – DO NOT induce vomiting; call a physician or poison control centre immediately. **(Note to physicians:** Because of increased risk of chemical pneumonia or pulmonary edema caused by aspiration of hydrocarbon solvent, vomiting should be induced only under professional supervision.)
- **In case of poisoning call a doctor and show him/her this label.**
- Very toxic to fish.
- Store product under confined conditions and prevent access to unauthorised persons, children and animals.

Although this herbicide 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 effects 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 to 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, and 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 or registration holder in the event of any uncertainty.

PRECAUTIONS:

- Wear rubber gloves, a cotton overall and face shield when preparing the spray mixture.
- Wash hands and face with soap after mixing or applying **BLIZZARD 480 EC**. Do not eat or drink during mixing or application of **BLIZZARD 480 EC** or before washing exposed parts. Avoid contamination of food, feeds, eating utensils or drinking water.
- Spray drift should not be inhaled, nor should it be allowed to spread over any non-target area such as water bodies or flowing water, grazing areas or other crops.
- Used empty container should be punctured and disposed of in a sanitary landfill or be incinerated.
- Prevent any contact with eyes through drift or splashing. In case of accidental contact wash with water for at least 15 minutes and contact a physician if eye or skin irritation persists.

SYMPTOMS OF HUMAN POISONING:

No signs and symptoms are known or expected in humans.

FIRST AID TREATMENT:

The herbicide does not uncouple oxidative phosphorylation or generate methemoglobin.

Skin Contact: Remove all signs of skin contamination by washing with non-abrasive soap and water. If irritation persists, obtain medical attention immediately.

Eye Contact: Treat immediately by flushing with a stream of clean water, holding the eyelid(s) open for at least 15 – 20 minutes. If irritation persists, obtain medical advice immediately.

Ingestion: Do not induce vomiting. Call a physician or a Poison Control Centre. If available, administer activated charcoal (6 – 8 heaping teaspoonful) with a large quantity of water. Do not give anything by mouth to an unconscious person.

ADVISE TO PHYSICIAN:

There are no specific antidotes for this herbicide. In the case of suicidal ingestions, particularly, the possibility must always be kept in mind that multiple toxic substances may have been swallowed.

Do not induce vomiting due to the aromatic solvent. Administer activated charcoal. Empty stomach by intubation, aspiration and lavage, using slurry of activated charcoal in isotonic saline. Rigorous precautions must be taken to protect the airway from aspiration of regurgitated gastric contents:

1. If the victim is unconscious, use a cuffed endotracheal tube prior to gastric intubation.
2. Keep the patient's head below level of stomach during gastric intubation and lavage. Keep victim's head turned to the left.
3. Aspirate pharynx as regularly as possible to remove gagged or stomach contents. Supportive measures are ordinarily sufficient for successful management of excessive exposures to these herbicides.

UN

FARM-AG

BLIZZARD 480 EC

Reg No/Nr: L 9001: Act/Wet 36 of/van 1947

A selective emulsifiable herbicide for pre-plant soil incorporation for the control of certain grass and broadleaf weeds in crops as indicated.

'n Selektiewe emulgeerbare konsentraat onkruiddoder vir voorplant grondinwerking vir die beheer van sekere eenjarige gras en breëblaar-onkruide in gewasse soos aangedui.

HRAC HERBICIDE GROUP CODE	K1	HRAC ONKRUIDDODERGROEP

ACTIVE INGREDIENT:
Trifluralin (dinitroaniline) / Trifluralien (dinitroanalien) .... 480 g/ℓ

SEE ENCLOSED LEAFLET FOR FULL PARTICULARS
SIEN INGESLOTE VOUBILJET VIR VOLLE BESONDERHEDE

Manufacture Date: / Vervaardigingsdatum:

Batch No.: / Lotnommer:

NET MASS / NETTO MASSA

SEE REVERSE SIDE OF DRUM / SIEN KEERSY VAN DROM

Registered by/Geregistreer deur:
SAFEGUARD CROP PROTECTION (PTY) LTD/(EDMS.) BPK
Reg. No/Nr: 1971/012583/07
P.O. Box/Posbus 1523, Durban, 4000
Tel. (031) 538-8700

UN No.: 1993

GROUP 3 **BLUE / BLOU BAND**

155 x 140 CYAN MAG YEL BLK

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RESISTANCE WARNING:

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

To delay weed resistance:

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

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

USE RESTRICTIONS:

- In addition to the crops mentioned below, the following crops may also be planted directly after a treated field has been harvested: beet, brassicae, carrots, castor oil, celery, cowpeas, cucurbits, fruit trees, mint, okra, potatoes, safflower sugarcane and tomatoes.
- All other crops need a waiting period of at least 12 months between treatment and planting.
- Waiting period for grain sorghum is 18 months.
- Periods of cold weather after planting the crop may lead to phytotoxicity, e.g. in the case of early season plantings.
- Do not use in the winter rainfall area on crops planted in winter except wheat and barley.
- **BLIZZARD 480 EC** can ONLY be applied on wheat and barley if the Ausseeder (Ausplow) or planters with a similar mode of action is used to plant the seed. The specific application directions for wheat and barley as indicated below must be followed.

DIRECTIONS FOR USE: Use only as directed.

GENERAL (crops other than wheat and barley)

- **BLIZZARD 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 about 150 to 500 ℓ water/ha at low pressure. 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 soil. Set the disc to penetrate to a depth of 10 to 15 cm.
- In the case of groundnuts, incorporate less deeply, say 3 to 5 cm, cutting 6 to 10 cm deep.
- 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 of tandem disc (alone or with spike-tooth harrow in tandem), disking the field twice, the second time at right angles with the first.
- Clods must be broken up because the weed seeds in untreated clods may germinate unaffected.
- **BLIZZARD 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 spring season starts up to the day of planting.
- **BLIZZARD 480 EC** will not leach out of the soil, not even under conditions of high rainfall or irrigation.
- **BLIZZARD 480 EC** may stunt or even reduce the stand of cotton seedlings affected by soil borne disease. To control seedling diseases apply a fungicide in the planting row and use treated seed.

WHEAT AND BARLEY

- Apply **BLIZZARD 480 EC** overall with a boom spray on the same tractor that is used to pull the planter. Only an Ausseeder DBS (Ausplow) or planters with a similar mode of action may be used.
- Application can also be made by spraying with a separate tractor followed by the planter provided that not more than 10 minutes must elapse between application and incorporation with the planter.
- **BLIZZARD 480 EC** treated soil must be thrown away from the plant row to cover the inter row areas. Take care that the planting speed and row spacing is such that the inter row is covered by the soil that is removed from the plant row but that the treated soil does not cover the next plant row.
- Do not apply to very stony soil.
- Apply only on a well prepared seedbed, free of excessive plant materials and clods.
- **BLIZZARD 480 EC** is an excellent graminicide. Soil treated with the herbicide must therefore be removed completely from the plant row before planting. Failure to do so might lead to crop damaged.

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CROP/SOIL TYPE	DOSAGE/HA	REMARKS
Groundnuts *Natal common and other Spanish upright types* 0 to 10 % clay 11 to 20 % clay	 0,75 ℓ 1,0 ℓ	Apply before planting and incorporate in the soil within 10 minutes.
Dry Beans, Carrots, Transplanted cabbages, Chillies 0 to 15 % 16 to 35 % 36 to 55 %	 1,0 ℓ 1,5 ℓ 2,0 ℓ	The treated fields may be weeded mechanically and tilled lightly during the season without affecting the efficiency of **BLIZZARD 40 EC** adversely.
Wheat and barley (Southern and Western Cape) 0 to 25 % clay	 1,0 – 2,0 ℓ	Planted wheat and barley only. Do not use in fields where wheat and barley are sown. Overall application and incorporation by a suitable planter within 10 minutes as described above. If a high infestation of *Lolium* spp. is expected the higher rate shoujld be used. Grasses other than *Lolium* spp. may not be satisfactory controlled and should be controlled with other herbicides from a different chemical group.

SOME WEED SPECIES NORMALLY CONTROLLED:

Grass species:

Lolium spp.	Rye grass
Poa annua	Annual bluegrass

Broadleaf species:

Portulaca oleraccea	Common purslane

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WAARSKUWINGS:

- Hierdie produk is skadelik deur:
  - vlambaar te wees – geen bronne van ontsteking moet in die produk se omgewing toegelaat word nie.
  - Oog- en velirritasie – vermy kontak deur versigtig te hanteer en persoonlike beskermende toerusting te gebruik.
  - Gevolge van insluk – MOET NIE braking veroorsaak nie; stel dadelik ‘n geneesheer in kennis. (**Nota aan geneesheer:** As gevolg van vergrote risiko van chemiese longontsteking wat veroorsaak word deur inaseming van koolwaterstof oplosmiddels, moet braking slegs onder professionele toesig geskied.)
- **In geval van vergiftiging ontbied ‘n geneesheer en toon hierdie etiket aan hom/haar.**
- Uiters giftig vir visse.
- Stoor produk in ‘n veilige plek en verhoed toegang deur oningeligte persone, kinders en diere.

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 berokke 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:

- Dra rubberhandskoene, ‘n katoenoorpak en gesigmasker terwyl die spuitmengsel voorberei word.
- Was gesig en hande met seep na vermenging en toediening van **BLIZZARD 480 EC**. Moenie eet of drink gedurende vermenging of toediening van **BLIZZARD 480 EC** of voordat blootgestelde dele gewas is nie. Vermy besoedeling van voedsel, voer, eetgerei of drinkwater.
- Spuitnewel moet nie ingeasem word nie of toegelaat word om oor nie-teiken gebiede te dryf, soos water gebiede of vloeiende water, weiding of ander gewasse nie.
- Raak ontslae van gebruikte leë houers deur gate in te slaan en in ‘n goedgekeurde stortingsterrein te gooi of te verbrand.
- Vermy enige kontak met oë deur wegdrywing of spat. In geval van per abuise kontak, was met water vir ten minste 15 minute en kontak ‘n geneesheer indien oog- of velirritasie aanhou.

SIMPTOME VAN MENSLIKE VERGIFTIGING:

Geen tekens of simptome van menslike vergiftiging is bekend nie.

NOODHULPBEHANDELING:

Die onkruiddoder ontkoppel nie oksidatiewe fosforilasie of genereer methoglobien nie.

Velkontak: Verwyder alle tekens van velbesoedeling deur dit met seep en water te was. Kry mediese hulp onmiddellik indien irritasie voorduur.

Oogkontak: Behandel onmiddellik deur die ooglede oop te hou en vir 15 – 20 minute met skoon water uit te spoel. Kry mediese raad onmiddellik indien irritasie voortduur.

Inname: Moet nie braking veroorsaak nie. Bel ‘n dokter of ‘n Poison Control Centre. Gee geaktiveerde houtskool (6 – 8 gelyke teelepels) met ‘n groot hoeveelheid water. Moet nie enigiets per mond aan ‘n bewustelose persoon gee nie.

NOTA AAN GENEESHEER:

Daar is nie spesifieke teenmiddels vir vergiftiging van die onkruiddoder nie. In die geval van selfmoord inname moet die moontlikheid altyd in gedagte gehou word dat meervuldige toksiese middels moontlik gesluk is.

Moenie braking induseer nie as gevolg van die aromatiese oplosmiddel. Dien geaktiveerde houtskool toe. Ledig d.m.v. maaguitspoeling met ‘n oplossing van geaktiveerde houtskool in isotoniese saline oplossing. Streng voorsorgmaatreëls moet geneem word om die lugweg te beskerm teen aspirasie van gastiese inhoud.

1. As persoon bewusteloos is, intubeer met ‘n endotracheale buis voor maaguispoeling.
2. Hou die pasiënt se kop laer as die maag gedurende gastriese braking. Hou pasiënt se kop gedraai na links.
3. Handhaaf deurentyd oop lugweë om aspirasie van gastriese inhoud te vermy. Ondersteunende maatreëls is normaalweg genoegsaam vir suksesvolle bestuur van oormatige bloodstelling aan die onkruiddoder.

WEERSTANDSWAARSKUWING:

BLIZZARD 480 EC is ‘n groepkode K1 onkruiddoder. Enige onkruidpopulasie mag individue bevat wat natuurlik bestand is teen **BLIZZARD 480 EC** en ander groepkode K1 onkruiddoders. Die weerstandbiedende individue kan uiteindelik die onkruidpopulasie domineer as hierdie

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onkruiddoders herhaaldelik gebruik word. Hierdie weerstandbiedende onkruide mag dan nie deur **BLIZZARD 480 EC** of enige ander groepkode K1 onkruiddoders beheer word nie.

Om onkruidweerstand te vertraag:

- Vermy uitsluitlike gebruik van onkruiddoders van dieselfde groepkode. Wissel af of vermeng in die spuittenk produkte van ander onkruiddodergroepkodes.
- Integreer die beheer metodes (chemies, kultureel, biologies) in die onkruiddoder beheer programme in.

Vir spesifieke inligting rakende weerstandsbeheer kontak die registrasiehouer van hierdie produk.

GEBRUIKSBEPERKINGS:

- Behalwe die gewasse wat hieronder genoem word, mag die volgende verbou word direk nadat 'n behandelde land geoes is: beet, koolgewasse, wortels, kasterolie, seldery, akkerbone, pampoengewasse, vrugteboorde, kruisement, okra, aartappels, saffloer, suikerriet en tamaties.
- Alle ander gewasse vereis 'n wagperiode van ten minste 12 maande tussen behandeling en plant.
- Periode van koue weer na plant van die gewas mag tot fitotoksisiteit lei, bv. vroeë seisoen aanplantings
- Moet nie in die winterreënvalgebied op gewasse, wat in die winter aangeplant word, gebruik nie behalwe op geplante koring en gars.
- **BLIZZARD 480 EC** kan ALLEENLIK op koring en gars gebruik word indien die saad geplant word deur 'n Ausseerder (Ausplow) of planters met 'n soortgelyke werking. Die spesifieke aanwysings vir koring en gars soos hieronder aangedui moet gevolg word.

GEBRUIKSAANWYSINGS: Gebruik alleenlik soos aangedui.

ALGEMEEN (alle gewasse behalwe koring en gars)

- **BLIZZARD 480 EC** word maklik deur sonlig ontbind en moet dus dadelik (binne 10 minute) in die grond ingewerk word nadat dit egalig oor die oppervlak gespuit is in ongeveer 150 tot 500 ℓ water/ha teen lae druk. Die 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 die onkruiddoder baie deeglik in die boonste 5 tot 10 cm van die grond in te werk. Stel die skottels sodat hulle 10 tot 15 cm penetreer.
- In die geval van grondbone werk minder diep in (diepte van 3 tot 5 cm) deur 6 tot 10 cm te sny.
- Vlak inwerking deur implemente wat minder as 5 cm diep sny kan wisselvallige onkruidbeheer tot gevolg hê.
- Deeglike inwerking kan met 'n krag-as-aangedrewe kapploeg of wisselgang- of tandemskotteleg (met of sonder tande agteraan) verkry word. Bewerk twee keer met die tweede keer reghoekig oor die eerste keer.
- Kluite moet opgebreek word omdat die onkruidsade in onbehandelde kluite ongeskonde mag ontkiem.
- **BLIZZARD 480 EC** het 'n lang nawerking en mag ter enige tyd, vanaf 2 tot 3 weke voor planttyd ingewerk word voordat die spitswektyd van die lente aanbreek, tot op die dag van plant.
- **BLIZZARD 480 EC** sal nie uit die grond loog nie, selfs nie in gevalle van hoë reënval of besproeiing nie.
- **BLIZZARD 480 EC** mag katoensaailinge, wat deur grondgedraagde siektes verswak is, se groei belemmer of selfs die stand verminder. Om saailingsiektes te bestry moet 'n swamdoder in die plantvoor aangewend word en behandelde saad gebruik word.

KORING EN GARS:

- Dien **BLIZZARD 480 EC** algeheel toe met 'n spuitbalk wat op dieselfde trekker gemonteer is wat die planter trek. Alleenlik Ausseeder DBS (Ausplow) of planters met 'n soortgelyke werking mag gebruik word.
- Toediening kan ook geskied deur met 'n aparte trekker te spuit gevolg deur die planter mits nie meer as 10 minute verloop tussen toediening en inwerk van die onkruiddoder nie.
- **BLIZZARD 480 EC** behandelde grond moet weg van die plantry gegooi word om die tussenrye te bedek. Maak seker dat die plantspoed en ryspasiëring sodanig is dat die tussenry bedek word deur die grond wat vanaf die plantry verwyder is maar dat die behandelde grond nie die volgende plantry sal bedek nie.
- Moet nie **BLIZZARD 480 EC** toedien op steil hellings nie waar die behandelde grond in die plantrye mag inbeweeg.
- Dien toe op 'n goed voorbereide saadbed, vry van oortollige plantreste en kluite.
- **BLIZZARD 480 EC** is 'n uitstekende grasdoder. Grond behandel met die onkruiddoder moet dus heeltemal van die plantry verwyder word voor plant. Indien dit nie gedoen word nie kan gewasskade voorkom.

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GEWAS/GRONDTIPE	DOSIS/HA	OPMERKINGS
Grondbone *Natal common en ander Spaanse regop tipes* 0 tot 10 % klei 11 tot 20 % klei	 0,75 ℓ 1,0 ℓ	Dien toe voor plant en werk binne 10 minute in die grond in.
Droëbone, Geelwortels, Uitgeplane kool, Rissies 0 tot 15 % klei 16 tot 35 % klei 36 tot 55 % klei	 1,0 ℓ 1,5 ℓ 2,0 ℓ	Die behandelde lande wag dwarsdeur die seisoen lig geskoffel of bewerk word, sonder om die uitwerking van **BLIZZARD 480 EC** te benadeel.
Koring en gars (Suid- en Weskaap) 0 tot 25 % klei	1,0 – 2,0 ℓ	Alleenlik geplante koring en gars. Moet nie in landerye gebruik nie waar koring en gars gesaai word. Algehele toediening en inwerking binne 10 minute deur ‘n geskikte planter soos hierbo beskryf. Indien ‘n swaar besmetting van *Lolium* spp. verwag word moet die houer dosis gebruik word. Ander grasse met die uitsondering van *Lolium* spp. mag nie bevredigend beheer word nie en onkruiddoders van ‘n ander onkruiddodergroep moet dus gebruik word om hulle te beheer.

ONKRUIDE NORMAALWEG BEHEER:

Grasspesies:

Lolium spp.	Raaigras
Poa annua	Eenjarige blougras

Breëblaaronkruide spesies:

Portulaca oleraccea	Gewone Porselein

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FARM·AG

BLIZZARD 480 EC

Reg No/Nr: L 9001: Act/Wet 36 of/van 1947

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SEE ENCLOSED LEAFLET FOR FULL PARTICULARS
SIEN INGESLOTE VOUBILJET VIR VOLLE BESONDERHEDE

Manufacture Date: / Vervaardigingsdatum:

Batch No.: / Lotnommer:

NET MASS / NETTO MASSA

SEE REVERSE SIDE OF DRUM / SIEN KEERSY VAN DROM

Registered by/Geregistreer deur:
SAFEGUARD CROP PROTECTION (PTY) LTD/(EDMS.) BPK
Reg. No/Nr: 1971/012583/07
P.O. Box/Posbus 1523, Durban, 4000
Tel. (031) 538-8700

UN No.: 1993 **GROUP 3** **BLUE / BLOU BAND**

155 x 140

CYAN MAG YEL BLK