

# KNOX OUT 2 FM

Reg. No.: L6506 Act No. 36 of 1947

A micro-encapsulated long lasting residual insecticide for the control of cockroaches, fleas, bedbugs, fish moths, ants and crickets, in and around buildings.

IRAC INSECTICIDE GROUP CODE: 1B

ACTIVE INGREDIENT:  
Diazinon (organophosphate).....240 g/l

DISTRIBUTOR:  
PROTEK, a division of PE-BEE AGRI (PTY) LTD  
Co. Reg. No.: 2005/036308/07  
P.O. Box 72, Heidelberg, 1438  
Tel: (011) 812 9800 or 0861 PROTEK (0861 77 68 35)  
www.protek.co.za

EMERGENCY NO.: 082 446 8946

## REGISTRATION HOLDER:

ARYSTA LifeScience South Africa (PTY) LTD  
Co. Reg. No.: 2009/019713/07  
7 Sunbury Office Park, Off Douglas Saunders Drive,  
La Lucia Ridge, 4019  
Tel.: (031) 514 5600  
www.arystalifescience.com



CAUTION



## WARNINGS:

- Handle with care.
- Harmful by contact, swallowing or inhalation.
- May cause slight eye irritation.
- Toxic to fish, bees and birds.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool, dry place and away from food and feedstuffs.
- **Re-entry:** Do not enter treated area, until spray deposit has dried, unless wearing protective clothing.

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 soil, climatic and storage conditions: quality of dilution water, incompatibility with other substances not indicated on the label and the occurrence of resistance of the pest 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 supplier in the event of any uncertainty.

## PRECAUTIONS:

- Do not inhale fumes and/or spray mist.
- Avoid skin and eye contact.
- Wear protective clothing e.g. suitable face shield and rubber gloves when handling and mixing the product.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face and changing clothing.
- Do not apply to humans, their clothing or bedding.
- Do not spray animals with this product.
- Do not allow children or pets to contact treated surfaces until spray has dried.
- Do not allow food to come into direct contact with a treated surface.
- Cover fish tanks prior to application.
- Clean application equipment after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Triple rinse empty containers 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 container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the described manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water, kitchen and eating utensils.

## DIRECTIONS FOR USE: Use only as directed.

- **KNOX OUT 2 FM** is a flowable micro-encapsulated formulation.
- Due to its controlled release nature the product gives excellent residual action; however, effective knockdown may take up to 24 hours after application.
- **KNOX OUT 2 FM** is to be used for residual pest control in and around residential buildings including homes and apartments, in and around areas of industrial, institutional and commercial buildings including, but not limited to stores, hospitals, manufacturing plants, warehouses, schools and food handling establishments.
- **KNOX OUT 2 FM** can be sprayed on any surface which will not be damaged or stained by water.
- Under conditions of proper application, **KNOX OUT 2 FM** will not leave a visible deposit. However, if unevenly applied or sprayed to run off, a visible deposit may occur on some dark surfaces and may be wiped off with a cloth or damp sponge.

## Compatibility:

- Do not use this product with oil.
- Thoroughly wash out spray equipment before using **KNOX OUT 2 FM**.

## Mixing Instructions:

- SHAKE WELL BEFORE OPENING.
- When diluting, first half-fill the spray tank with clean water.
- Then add the required quantity of **KNOX OUT 2 FM**.
- Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing.
- Maintain agitation or shake the applicator regularly during spraying to ensure even coverage.
- Shake or re-agitate the sprayer contents before use, if application is interrupted.
- If spray screens are used, they must be 50 mesh or larger.
- To facilitate pouring, wet the sides of the measuring cup with water, before ensuring **KNOX OUT 2 FM**.

## APPLICATION DOSAGE RATES:

PEST	DOSAGE RATE	DIRECTIONS FOR APPLICATION
<b>Cockroaches &amp; Fish moths:</b>	75-200 ml/10 l water	Apply spot application as a coarse spray or by paint brush & Fish moths: to skirting boards, drawers, shelves, around water pipes, storage areas, closets, behind and under cupboards, refrigerators, sinks, stoves and similar areas where these insects hide. Repeat <b>KNOX OUT 2 FM</b> treatment as needed, but generally will not be necessary more than once every 60 days. The higher rate should be used where American cockroaches are prevalent.
<b>Ants &amp; Bedbugs</b>	75 ml/10 l water	<b>Ants:</b> Apply as a spot application by applying <b>KNOX OUT 2 FM</b> as a spray to skirting boards, window frames, cracks and crevices and similar hiding or habitation areas. Apply to trails, around doors and windows and other areas where these insects may crawl or enter the premises. For lawn treatment apply as an even overall drench using a high volume sprayer or watering can to ensure thorough wetting. Repeat as necessary. <b>Bedbugs:</b> Apply as a spot application by applying <b>KNOX OUT 2 FM</b> as a spray to places likely to be frequented by bedbugs such as into cracks and crevices and onto walls, bed frames and mattresses of where infestation occurs. Do not apply directly to bedding. Repeat as necessary.
<b>Crickets</b>	200 ml /10 l water	Apply as a spot application by applying <b>KNOX OUT 2 FM</b> as a spray to skirting boards, behind and under cupboards and appliances. Areas around doors and water pipes should be treated to prevent crickets from entering the premises. Repeat as necessary.
<b>Fleas</b>	400 ml/10 l water	Thoroughly apply <b>KNOX OUT 2 FM</b> as a spray to pet beds and resting quarters, adjacent crack and crevices, skirting boards, carpets and floor coverings, between and under cushions of upholstered furniture and other areas where these insects may be present. Entire carpets may be treated. Applications to most surfaces should be as light as possible; approximately 2 litres spray mixture per 75 m <sup>2</sup> . It may be necessary to use a higher volume on long, dense, shag carpets. Old bedding of pets should be replaced with clean fresh bedding 3 days after treatment. Animals should not be sprayed with this product.

# KNOX OUT 2 FM

Reg. Nr.: L6506 Wet Nr. 36 of 1947

'n Mikro-enkapsuleerde insekdoder met lang residuele effek vir die beheer van kakkerlakke, vlooië, weeluis, vismotte, miere en krieke, in en om geboue.

IRAC INSEKODERGRUPE KODE: 1B

AKTIEWE BESTANDEEL:

Diazinon (organofosfate).....240 g/l

VERSPREIDER:

PROTEK, 'n divisie van PE-BEE AGRI (EDMS) BPK

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VERSIGTIG



## WAARSKUWINGS:

- Hanteer versigtig.
- Skadelik deur kontak, insluiting van inaseming.
- Mag ligte oog-irritasie veroorsaak.
- Giftig vir visse, bye en voëls.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Berg in 'n koel, droë plek en weg van voedsel en voer.
- **Herbetreding:** Moet nie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.

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 bergingstoestand; kwaliteit van verdunningswater, onverenigbaarheid met ander stowwe wat op die etiket aangedui is nie en die voorkoms van weerstand van die plaag 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.

## VOORSORGMATREELS:

- Moet nie spuitnevel en/of dampe inasem nie.
- Vermoë kontak met vel en oë.
- Dra beskermende kleres soos geskikte gesigskerm en rubberhandskoene wanneer produk hanteer en gemeng word.
- Was met seep en water na gebruik en toevallige velkontak.
- Was besoedelde kleres na gebruik.
- Moet nie eet, drink of rook gedurende vermenging of bespuiting of voordat hande en gesig gewas is en skoon kleres aangetrek het nie.
- Moet nie aan mense, kleres of beddegoed aangewend word nie.
- Moet nie diere met die produk spuit nie.
- Moet nie kinders en troeteldiere in kontak kom met die behandelde oppervlakke nie, alvorens die spuitneerslag droog is.
- Moet nie toelaat dat kos in direkte kontak met die behandelde oppervlakke nie, alvorens die spuitneerslag droog is.
- Bedek vistenk voor toediening.
- Vermoë wegdryf van spuitnevel na ander gewasse, weiveld, visdamme, riviere, damme en plekke wat nie behandel word nie.
- Maak toedieningsapparaat skoon na gebruik. Doen weg met uitspoelwater waar gewasse, weiveld, riviere, damme en boorgate nie besoedel word nie.
- Lee houers moet driekeer uitgespoel word soos volg: Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houer daarna driekeer 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 deur gate daarin te kap en plat te slaan en doen weg daarmee op 'n veilige manier.
- Moet nooit die leë houer vir enige ander doel hergebruik nie.
- Voorkom besoedeling van voedsel, voer, drinkwater, kombuis en eetgerei.

## GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.

- **KNOX OUT 2 FM** is 'n vloeiende mikro-enkapsuleerde formulering.
- As gevolg van sy natuurlike gekontroleerde vrylating gee die produk uitstekende residuele aksie, maar effektiwiteit kan eers 24 uur na aanwending intree.
- **KNOX OUT 2 FM** moet gebruik word vir residuele plaagbeheer in en om residensiele geboue insluitend huise en woonstelle, in en om areas met industriële, institusionele en kommersiële geboue insluitend, maar nie beperk tot store, hospitale, fabriekke, pakhuisse, skole en voedselhanteringsfasiliteite nie.
- **KNOX OUT 2 FM** kan op enige oppervlak aangewend word wat nie deur water beskuldig of geviek kan word nie.
- **KNOX OUT 2 FM** sal nie 'n sigbare neerslag laat indien korrek aangewend word nie. Dit sal egter 'n sigbare neerslag vorm op sekere donker oppervlakke indien oneweredig aangewend word, maar kan met 'n klam lap of spons verwyder word.

## Verenigbaarheid:

- Moet nie hierdie produk met olie gebruik nie.
- Was spuittoerusting deeglik uit voordat **KNOX OUT 2 FM** gebruik word. Menginstruksies:

## Menginstruksies:

- SKUD GOED VOOR OOPMAAK.
- Maak eers die spuittenk halfvol met skoon water.
- Voeg dan die verlangde hoeveelheid **KNOX OUT 2 FM** by.
- Vul die spuittenk met water tot die verlangde volume, terwyl roering gehandhaaf word sodat deeglike vermenging verseker word.
- Handhaaf roering of skud die toediener gereeld tydens toediening om eweredige bedekking te verseker.
- Skud of roer die spuittenkinhoud voor gebruik, indien toediening onderbreek was.
- Indien sproeiskerms gebruik word, moet hulle 50 "mesh" of groter wees.
- Om gieting te vergemaklik, maak die kante van die maatbeker nat met water voordat **KNOX OUT 2 FM** afgemeet word.

## TOEDIENINGSHOEVEELHEDE:

PLAAG	DOSIS	OPMERKINGS
<b>Kakkerlakke &amp; Vismotte</b>	75-200 ml/10 l water	Wend aan as 'n koltoediening met digte sproei of met 'n verf kwas, op vierlyste, laaie, rakke, rondom waterpype, stoor-areas, kaste, onder en agter laaikaste, yskaste, opwasbakke, stowe en soortgelyke areas waar hierdie insekte wegruip. Herhaal <b>KNOX OUT 2 FM</b> -behandeling wanneer nodig, maar sal oor die algemeen nie meer as een keer elke 60 dae nodig wees nie. Die hoër dosis moet gebruik word waar Amerikaanse kakkerlakke baie algemeen is.
<b>Miere &amp; Weeluis</b>	75 ml/10 l water	<b>Miere:</b> Wend aan as 'n koltoediening deur <b>KNOX OUT 2 FM</b> as sproei op vierlyste, venster rame, krake en skeure en soortgelyke wegruip- of broeiplekke toe te dien. Wend aan op spore, rondom deure en vensters en ander areas waar hierdie insekte loop of areas binnekom. Vir gras behandeling dien so egalig moontlik toe met 'n hoë volume sproeier of gieter om sodoende deeglike benutting te verseker. Herhaal indien nodig. <b>Weeluis:</b> Wend aan as 'n koltoediening deur <b>KNOX OUT 2 FM</b> as 'n sproei, op plekke met waarskynlikheid van weeluis soos krake en skeure en op mure, bedrame en matrasse of waar infestasië voorkom, toe te dien. Moet nie direk aanwend op beddegoed nie. Herhaal indien nodig.
<b>Krieke</b>	200 ml/10 l water	Wend aan as 'n koltoediening deur <b>KNOX OUT 2 FM</b> as 'n sproei, op vierlyste, agter en onder laaikaste en toestelle toe te dien. Areas rondom deure en waterpype moet behandel word om te verhoed dat krieke areas binnekom. Herhaal indien nodig.
<b>Vlooië</b>	400 ml/10 l water	Wend <b>KNOX OUT 2 FM</b> deeglik aan as 'n sproei op beddens en rus-areas van troeteldiere, aangrensende krakies en skeure, vloerlyste, matte en vloerbedekkings, tussen en onder kussings van gestoffeerde meubels en ander areas waar hierdie insekte mag voorkom. In die geval van tapyte, kan die hele tapyt behandel word. Aanwending op meeste oppervlakke moet so lig moontlik wees; ongeveer 2 liter spuitmengsel per 75 m <sup>2</sup> . Dit mag nodig wees om 'n hoër volume te gebruik in digter, langhaar matte. Ou beddegoed van troeteldiere moet vervang word met vars en skoon beddegoed 3 dae na behandeling. Diere moet nie met die produk besproei word nie.