



Dow AgroSciences

INDAR 50 EW

FUNGICIDE

Reg. No. L5453 Act/Wet 36/1947

AN EMULSION (OIL IN WATER)
FUNGICIDE FOR THE TREATMENT OF
SCAB OF APPLES AND PEARS AND
BROWN ROT OF STONE FRUIT.

'N EMULSIE (OLIE IN WATER)
SWAMDODER VIR DIE BEHANDELING VAN
SKURF VAN APPELS EN PERE EN
BRUINVROT VAN STEENVRUGTE.

FUNGICIDE GROUP

3

SWAMDODERGROEP

Active Ingredient / Aktiewe Bestanddeel

Fenbuconazole (DMI-Triazole) 50 g/l Fenbukonasool (DMI-Triasool)

Net Contents 5 l Netto Inhoud

REGISTRATION HOLDER / REGISTRASIEHOUER

DOW AGROSCIENCES SOUTHERN AFRICA (PTY) LTD / (EDMS) BPK
REG NO 1967/007147/07
PRIVATE BAG X160 PRIVAATSAK
BRYANSTON 2021

Batch Number

..... Lotnommer

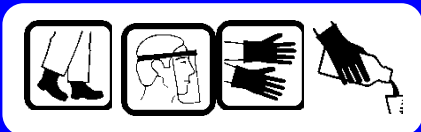
Date of Manufacture

..... Vervaardigingsdatum

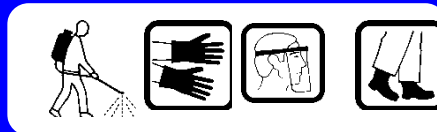
UN NO: 3082

Poisons Helpline: +27(0)861-555-777
Griffon Poison Information Centre: +27(0)82-446-8946
24 Hour Emergency Tel No: 082-887-8079
Information Hotline Tel No: (012) 361-8112

INDAR 50 EW/2002-02-13



**CAUTION
VERSIGTIG**



WARNINGS

Allow the following number of days between last application and harvest :

Apples and Pears..... 14 days
Apricots, peaches including nectarines and plums. 1 day

Note: Withholding periods above are based on local requirements for residue levels and may differ from other countries to which treated products may be exported

Harmful by skin contact, ingestion and inhalation.

Toxic to fish.

Store in cool place away from food and feedstuffs.

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

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 the disease 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, the environment or harm to man or animal or for the 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 spray mist and prevent eye and skin contact.

Wear suitable face protection and rubber gloves and boots when preparing and applying spray mixture.

Wash with soap and water after use.

Do not eat, drink or smoke while mixing, applying or before having washed hands and exposed skin.

Avoid drift of spray mist onto other crops, grazing or areas not under treatment, rivers and dams.

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

Rinse empty container three times with a volume of water equal to at least one tenth of the container and add the rinsings to the spray tank. Destroy empty container by perforation and flattening and do not use for any other purpose.

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

DIRECTIONS FOR USE:

Use only as directed

RESISTANCE MANAGEMENT

For resistance management, **INDAR* 50 EW** is a group 3 fungicide. Any disease population may contain strains naturally resistant to **INDAR* 50 EW** and other members within group 3 fungicides. The resistant strains will eventually dominate the disease population if these fungicides are used repeatedly in exclusive programmes. These resistant stains may not be controlled by **INDAR* 50 EW** or other group 3 fungicides. The classification scheme is based on mode of action. If field resistance is known to one member of a group, it is likely, but not certain that cross-resistance to other group members will also be present. It is recognised that such cross-resistance can be a variable factor between group members and the degree of the effect can differ both between fungal genera and species and even within species. Despite this, alternation of compounds from different chemical classes remains a viable management technique. To delay fungicide resistance

- Avoid exclusive repeated use of fungicides from the same chemical group or subgroup
- Integrate other methods (chemical, cultural, biological) into disease control programmes

For further information contact your local distributor

INDAR* 50 EW should not be used in more than 4 applications per crop per season.

COMPATIBILITY

INDAR 50 EW is compatible with most crop protection products normally used on deciduous fruit. A physical compatibility test should be conducted before mixing. Consult supplier in case of any doubt.

MIXING INSTRUCTIONS

Where **INDAR 50 EW** is used in a tankmix with wettable powder formulations, the wettable powder should first be mixed with water to a slurry, before it is added to the partially filled spray tank. Add water to about 50 % capacity and agitate before adding the **INDAR 50 EW**. The tank may then be filled to the required level. Agitate throughout mixing, transportation and spraying operations.

APPLICATION RECOMMENDATIONS:

The spray volume required per hectare for HV applications at a specific growth stage should be accurately determined according to Unrath's formula of Tree Row Volume (TRV) and High Volume Requirement (HVR)

$$\text{TRV} = \frac{\text{Tree Height}^* \times \text{Tree Width}^*}{\text{Distance between Rows}} \quad \text{HVR} = \text{TRV} \times 937 = \text{Litre per ha}$$

(Tree height and tree width should be measured during summer when trees are in full flush)

Directions for application volumes at different growth stages and the calculation of rate per ha, based on high volume requirements:

Growth Stage	Application volume
Bud break to full blossom	60% x HVR
90% Petal fall to one month later (Mid season)	80% x HVR
Mid season to post harvest, before leaf drop	100% x HVR

CROP/ DISEASE	DOSAGE/100 ℓ WATER	REMARKS
APPLES AND PEARS Scab <i>(Venturia inaequalis and V. pirina)</i>	40 ml INDAR 50 EW + 75 g Dithane 750 WG Neotec (Reg No.L4213) or Dithane M45 800 WP (Reg.No.L2914)	<p>1. SCHEDULED PROGRAMME</p> <p>Growth stage: Pre-blossom to full blossom Commence spraying at green tip and re-apply at 7 day intervals. Post blossom. Spray at 14 day intervals.</p> <p>2. CURATIVE PROGRAMME (For use where a reliable disease forecasting system is available). Apply as soon as possible after an infection period has been monitored with an index high enough for the development of a leaf infection (Pre-blossom) and a fruit infection (Post blossom). The period from the beginning of an infection period (rain) and the application of INDAR 50 EW should not exceed 5 days.</p> <p>N.B. Where powdery mildew is a problem in apples, specific control measures against powdery mildew should form part of the spray programme.</p>

CROP/ DISEASE	DOSAGE/100 ℓ WATER	REMARKS
STONE FRUIT Brown rot <i>(Monilinia laxa)</i>	80 ml	Start applying 15 days before harvest and apply 3 sprays at 7 day intervals with the last application, one day before harvest.

24 HOUR EMERGENCY TEL. NO. +27(0)82-887-8079

INFORMATION HOTLINE : TEL. NO.: (012) 361-8112

WAARSKUWINGS

Laat volgende aantal dae toe tussen laaste toediening en oes:

Appels en pere 14 dae
Appelkose,perskes insluitende nektariens en pruime 1 dag

LET WEL: Bogenoemde onthoudingsperiodes is gebaseer op plaaslike vereistes vir residuvlakke en mag verskil van ander lande waarheen behandelde produkte moontlik uitgevoer word.

Skadelik by inname, velkontak en inaseming.

Giftig vir visse.

Stoor in koel plek weg van voedsel en voer.

Hou buite bereik van kinders, oningeligte persone 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 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 siekte 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 en vermy oog en velkontak.

Dra toepaslike gesigsbeskerming en rubberhandskoene en -stewels wanneer spuitmengsel voorberei en aangewend word.

Was met seep en water na gebruik.

Moet nie eet, drink of rook terwyl middel gemeng of toegedien word of voordat hande en blootgestelde vel gewas is nie.

Voorkom wegdrywing van spuitnewel na ander gewasse, weidings, riviere en damme.

Maak spuittoestel na gebruik skoon en raak ontslae van die spoelwater waar dit nie gewasse, weidings of water sal besoedel nie.

Spoel leë houer drie keer uit met 'n volume water gelyk aan ten minste een tiende van die houer en voeg die uitspoel water by die inhoud van die spuittenk voordat die houer vernietig word deur gate in te kap en plat te druk.

Moet nie leë houer vir enige ander doel gebruik nie.

Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.

WEERSTANDBESTUUR

Vir die doel van weerstandsbestuur is **INDAR* 50 EW**, op grond van werkingswyse as 'n groep 3 swamdoder gegropeer. Enige siekte mag rasse, wat 'n natuurlike weerstand teen **INDAR* 50 EW** of ander swamdoders binne die groep het, insluit. Indien swamdoders binne die groep herhaaldelik in eksklusiewe programme aangewend word, sal die weerstandbiedende rasse uiteindelik oorheersend in die populasie voorkom. Hierdie weerstandbiedende rasse mag waarskynlik nie deur **INDAR* 50 EW** of ander swamdoders in groep 3 (met dieselfde werkingswyse) beheer word nie. Indien weerstand in 'n bepaalde gebied teen een middel binne die groep bekend is, is dit hoogs waarskynlik, maar nie noodwendig nie, dat weerstand teen ander middels binne dieselfde groep ook aanwesig is. Dit is bekend dat sulke kruisweerstand 'n variërende faktor tussen verskillende middels binne dieselfde groep kan wees en dat die graad van weerstandbiedende tussen beide genera en spesies van 'n siekte en selfs tussen spesies binne dieselfde genera kan wissel. Nieteenstaande die verskynsel, bly die afwisseling van nie-verwante middels steeds 'n lewensvatbare bestuurspraktyk teen moontlike opbouing van weerstandbiedende siektepopulasies. Om weerstand teen swamdoders te vertraag

- Vermoed herhaaldelike en eksklusiewe aanwending van swamdoders binne dieselfde chemiese groep of subgroep.
- Integreer ander metodes (chemies, verbouing, biologies) in siektebeheer programme.

Skakel u plaaslike voorsiener van plaagbeheer middels vir meer inligting.

INDAR*50 EW moet nie meer as 4 maal per seisoen per gewas toegedien word nie

VERENIGBAARHEID

INDAR 50 EW kan gemeng word met die meeste middels in algemene gebruik op sagtevrugte gewasse. 'n Fisiese verenigbaarheidstoets word aanbeveel. Raadpleeg die verskaffer in geval van enige twyfel.

MENGINSTRUKSIES

Waar tenkmengsels van **INDAR 50 EW** en benatbare poeiers gemaak word, word die benatbare poeier eers met 'n bietjie water tot 'n room vermeng, voordat dit in die spuittenk, wat gedeeltelik vol water is, gevoeg word. Voeg verder water by tot omtrent 50 % kapasiteit en roer voordat die **INDAR* 50 EW** bygevoeg word. Die spuittenk kan dan tot die gewenste vlak volgemaak word. Roer aanhoudend gedurende meng, vervoer en toediening.

TOEDIENINGS AANBEVELINGS

Die dosis en spuitvolume wat op 'n spesifieke groeistadium per ha benodig word, moet volgens Unrath se formule vir boomryvolume (BRV) en hoë volume behoefte (HVB), bepaal word.

$$BRV = \frac{\text{Boomhoogte}^* \times \text{Boomwydte}^*}{\text{Afstand tussen rye}} \quad HVB = BRV \times 937 = \text{Liter per ha}$$

*(Boomhoogte en boomwydte moet gedurende somer gemeet word wanneer die bome in vol groei is)

Riglyne vir toedieningsvolumes en die berekening van die dosis per ha gebaseer op hoëvolume vereistes by verskillende groeistadiums.

Groeistadium	Toedieningsvolume
Bot tot volblom	60% x HVB
90% Blombaarval tot een maand later (Midseisoen)	80% x HVB
Midseisoen tot na-oes, voor blaarval	100% x HVB

GEWAS/ SIEKTE	DOSIS/100 ℓ WATER	OPMERKINGS
APPELS EN PERE Skurf <i>(Venturia inaequalis and V. pirina)</i>	40 ml INDAR 50 EW + 75g Dithane 750 WG Neotec (Reg Nr L4213) of Dithane M45 800 WP (Reg Nr L2914)	1.GESKEDULEERDE PROGRAM Groeistadium: Voorblom tot volblom. Begin bespuitings by groenpunt stadium en herhaal met tussenposes van 7 dae. Nablom. Dien toe met tussenposes van 14 dae. 2.KURATIEWE PROGRAM (Vir gebruik waar 'n betroubare siekte voorspellings sisteem bestaan). Dien toe so gou as moontlik nadat 'n infeksieperiode gemonitor is met 'n indeks hoog genoeg vir die totstandkoming van blaarinfeksie (voor-blom) en vruginfeksie (na-blom). Die tydperk vanaf die begin van die infeksie periode (reën) tot die toediening van INDAR 50 EW moet nie 5 dae oorskry nie. L.W. Waar poeieragtige skimmel 'n probleem in appels is, moet spesifieke middels daarteen gebruik word as deel van die program.

GEWAS/ SIEKTE	DOSIS/100 ℓ WATER	OPMERKINGS
STEENVRUGTE Bruinvrot <i>(Monilinia laxa)</i>	80 ml	Begin spuit 15 dae voor oes en dien drie bespuitings toe met 7 dae intervalle sodat die laaste bespuiting op die dag voor oes toegedien word.

24 UUR NOODGEVAL TEL. NO. +27(0)82-887-8079

TEGNIесе NAVRAE/INLIGTING TEL. NO. (012) 361-8112