

UPHOLD™ 360 SC

INSECTICIDE

Registration number/Registrasie nommer: L10164 ACT No. 36 of 1947 / WET Nr. 36 of / van 1947
N-AR 1902
W130910

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

IRAC: GROUP CODE	5A/18	INSECTICIDE
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A SUSPENSION CONCENTRATE CONTACT AND STOMACH INSECTICIDE (MOULT ACCELERATING COMPOUND) FOR THE CONTROL OF INSECT PESTS ON AGRICULTURAL CROPS AS LISTED.

'N SUSPENSIEKONSENTRAAT KONTAK EN MAAGINSEKDODER (VERVELLINGSVERSNELLINGSMIDDEL) VIR DIE BEHEER VAN INSEKPLAE IN LANDBOUGEWASSE SOOS AANGEDUI.



HAZARD STATEMENTS:

May cause an allergic skin reaction.
 Suspected of damaging fertility.
 Very toxic to aquatic life with long lasting effects.



PRECAUTIONARY STATEMENTS:

Obtain, read and follow all safety instructions before use.
 Avoid breathing dust/fume/gas/mist/vapour/spray.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If exposed or concerned, get medical advice.
 Collect Spillage.
 Dispose of contents/container in accordance with applicable regulations.



WARNING

Active Ingredient/Aktiewe Bestanddeel

Spinetoram/methoxyfenozone..... 360 g/L Spinetoram/methoxyfenozone
 Net volume L Netto volume

REGISTRATION HOLDER / REGISTRASIEHOUER
 CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK
 REG NO 1991/003030/07

Lakefield Office Park, Block A, 2nd Floor, 272 West Avenue, CENTURION, 0157 South Africa

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Batch No.
 Date of Manufacture
 Expiry Date



..... Lot Nr.
 Datum van Vervaardiging
 Vervaldatum

UN NO: 3082

Poisons Helpline: +27(0)861-555-777
 Griffon Poison Information Centre: +27(0)82-446-8946
 Local Emergency No: +27(0)82-895-0621 (SA only)
 24 Hour Emergency Tel No: +32-3-575-5555
 Information Hotline Tel No: +27(0)12 683-5700

UPHOLD™ 360 SC/2022-09-00

WARNINGS:

HAZARD STATEMENTS:

- May cause an allergic skin reaction.
- Suspected of damaging fertility.
- Very toxic to aquatic life with long lasting effects.

Withholding period - Minimum time between last application and harvest:

Cruciferae (all)	21 days
Maize	21 days
Sweetcorn	21 days
Sorghum	21 days
Drybeans.....	59 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits. However, the import tolerances of other countries may differ and local residue limits and withholding periods may possibly not comply with those of other countries. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, Maximum Residue Limits and recommended withholding periods.

Re-entry interval: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

- Handle with care.
- May cause slight eye irritation.
- This product is moderately toxic to fish and toxic to aquatic invertebrates. Do not apply directly to open water.
- Store in a cool dry place, away from food and feedstuffs.
- Keep out of the reach of children, uninformed persons and animals.
- Beneficial Insects:
 - ❖ This product is toxic to bees when exposed to direct spray, or wet spray deposit.
 - ❖ Do not apply directly to foraging bees, or bee colonies.
 - ❖ **UPHOLD™ 360 SC** will not interfere with the activities of honey bees once the spray deposit has dried.
 - ❖ Apply only during night to crops in flower or where other foraging vegetation is within 500 m from the spraying area.
 - ❖ Allow at least 12 hours between application and foraging period of bees.

Co-ordinate in this regard with neighbours, beekeepers and local extension services when applying in the vicinity of crops in flower.

Parasitoids: "Slightly harmful"

Predatory Mites: "Harmless to slightly harmful to some species"

Predatory beetles e.g. Coccinellidae: "Harmless"

Neuroptera: "Harmless"

Lacewings: "Harmless"
Predatory bugs: "Harmless"

DISCLAIMER:

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 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 use 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:

PRECAUTIONARY STATEMENTS:

- Obtain, read and follow all safety instructions before use.
- Avoid breathing dust/fume/gas/mist/vapour/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If exposed or concerned, get medical advice.
- Collect Spillage.
- Dispose of contents/container in accordance with applicable regulations.

Store in original labeled container, tightly closed and in a locked, dry, cool and well-ventilated area, well away from foodstuffs.

Avoid inhalation of spray mist.

Wash with soap and water after use or accidental skin contact.

Wear gloves and face shield when handling.

Avoid contamination of skin and eyes. In case of accidental contact with eyes, wash with running water for at least 15 minutes. Get medical attention if irritation persists.

Do not eat, drink or smoke whilst mixing or applying.

Wash hands and face before eating, drinking, smoking or using the toilet.

Avoid spray drift onto adjacent crops, grazing, rivers and dams.

Clean all spray equipment before using for other remedies and dispose of wash water in area already sprayed where it will not contaminate crops, grazing, rivers, dams and water sources.

Invert the empty container for at least 30 seconds after the flow has slowed down to a drip.

Thereafter rinse empty 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 by perforation, flattening and burying and do not use for any other purpose.

Prevent contamination of food, feedstuffs, drinking water and eating utensils by handling, storage or disposal.

RELEVANT SUBSTANCES:

COMPONENT	CAS No. EC	Concentration
Spinetoram	935545-74-7	≥3 - <10%

FIRST AID MEASURES:

Protection of first aiders

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

Inhalation

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration, if by mouth-to-mouth use rescuer protection (pocket mask etc.). Call a poison control center or doctor for treatment advice.

Skin contact

Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.

Eye contact

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.

Ingestion

No emergency medical treatment necessary.

DIRECTIONS FOR USE:

Use only as indicated

Shake well before use

UPHOLD™ 360 SC is a suspension concentrate, which should be mixed with water and applied as a foliar spray with ground equipment equipped for conventional insecticide application. **UPHOLD™ 360 SC** works by both contact and ingestion activity. Exposed larvae stop feeding immediately but can take up to 3 days to mortality. Proper coverage of target area is important.

Insecticide Resistance Management (IRM)

The classification scheme of insecticides is based on “mode of action” **UPHOLD™ 360 SC** is classified as a spinosyn (IRAC subgroup 5A) and methoxyfenozide (IRAC group 18) insecticide. Do not apply more than two (2) applications of **UPHOLD™ 360 SC** to any crop in any one season. Use insecticides from a different chemical group if more than two (2) applications are required.

Any insect population may contain individuals naturally resistant to **UPHOLD™ 360 SC** and other spinosyns and methoxyfenozide. The resistant individuals will eventually dominate the insect population if these insecticides are used repeatedly over long periods or to consecutive generations. **UPHOLD™ 360 SC** or other spinosyn and methoxyfenozide insecticides may not control these resistant insects. Local experts should be consulted for resistance strategies and specific recommendations. It is recognised that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioural changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable anti-resistance management technique.

To delay insecticide resistance

- Avoid the exclusive repeated use of insecticides from the same chemical subgroup.
- Do not use less than recommended label rates of any insecticides.
- Target applications preferably against early instar larvae and eggs of the pest whenever possible.
- Include proven cultural and biological control practices within an Integrated Pest Management Programme.

Integrated Pest Management (IPM) Programme:

UPHOLD™ 360 SC can be recommended for IPM programmes in various crops. **UPHOLD™ 360 SC** should be applied when field scouting/monitoring indicates target pest populations have reached the economic threshold. Other than reducing the target pest species as a food source, **UPHOLD™ 360 SC** used under GAP, does not have a significant impact on certain parasitic or predaceous insects and mites, including ladybirds, lacewings, assassin bugs, predatory mites, etc. Although **UPHOLD™ 360 SC** is classified as “harmful” to Parasitoids, field studies showed a rapid recovery of numbers after application. The feeding activities of these beneficial arthropods will aid in the extended natural control of other insects and reduce the likelihood of secondary pest outbreaks for which additional insecticide treatments may be needed. If **UPHOLD™ 360 SC** is tank mixed with any insecticide that reduces its selectivity **UPHOLD™ 360 SC** in preserving beneficial predatory insects, then the full benefit of **UPHOLD™ 360 SC** to the IPM programme may be reduced.

MIXING INSTRUCTIONS:

Compatibility with other agrochemicals has not been tested.

Mixing UPHOLD 360 SC alone:

Fill the spray tank with water to about half of the total spray volume required. Start agitation and add the required amount of **UPHOLD™ 360 SC** to the spray tank. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

Compatibility, pH and tank mixing:

Do not apply **UPHOLD™ 360 SC** in muddy water. Although the pH of the spray mixture does not have an effect on the initial knockdown performance of **UPHOLD™ 360 SC**, a low pH value (< pH 5) of the spray mixture will decrease the residual performance. Buffer agents are generally not needed. Acidifiers or products that will acidify the spray mixture below pH 5 (e.g. phosphonates, high rates of foliar fertilizers, etc.) should be avoided or buffered back to pH 5 - 8. **UPHOLD™ 360 SC** will perform best at pH 5 - 8.

Rainfastness: Avoid applications when rain is expected within 6 hours of spraying.

APPLICATION

Proper application techniques help ensure thorough spray coverage and the correct dosage necessary to obtain optimum control of insect pests. The following recommendations are provided for effective application of **UPHOLD™ 360 SC**. To ensure adequate spray coverage, attention should be given to proper ground speed and calibration as well as conditions such as wind speed, and foliar canopy.

GROUND APPLICATION

Thorough wetting of plants is important in order to achieve good pest control. For broadcast application a spray volume of 300 l spray mixture per hectare should be used. For row application a spray volume of 3 l spray mixture per 100 m row length should be used.

NOTE: MAIZE AND SWEETCORN

Maize stalk borer (*B. fusca*)

Applications are based on scouting results.

a) **Maize**

Apply when 10% of the plants show shothole damage. If the larvae are bigger than 10 mm or when re-infestation occurs, a second application 10 - 12 days later may be necessary.

b) **Sweetcorn**

Apply when the first signs of shothole damage are visible. Repeat applications every 14 days when re-infestations of Sorghum stalkborer (*C. partellus*) occur. Do not apply after tassel emergence.

c) Do not apply to crops under drought stress. Systemic activity is reduced by maturity. Therefore, apply to maize and sweetcorn which is growing **actively and only apply up to the stage before the tassels/ears are enclosed by the flag leaf** of the crops. Treat before larvae have entered the stalks.

d) Rain or irrigation within 6 hours after application may adversely affect pest control and a follow-up application may be necessary.

CROP/PEST	DOSAGE/HA	REMARKS
CRUCIFERAE (All cruciferae crops) Diamond back moth larvae (<i>Plutella xylostella</i>) Fall army worm (<i>Spodoptera frugiperda</i>)	350-400 ml	Apply UPHOLD™ 360 SC as a full cover spray at a minimum of 500l/ha every 7-10 days. Start application when pest is first noticed or apply as a follow-up application in a spray programme after insecticides from a different class as required in anti-resistant programmes. Apply a minimum of two consecutive UPHOLD™ 360 SC sprays to ensure effective control of pest. Use the higher rate when a corrective application is made. The lower rate may be used for follow-up applications when applied in a spray programme. Use the shorter spray interval of 7 days when heavy infestations occur or when climatic conditions favour the pest e.g. during summer months.
DRYBEANS African bollworm (<i>Helicoverpa armigera</i>)	400 ml/ha	Apply UPHOLD™ 360 SC as a full cover spray when scouting indicates infestation level at, or above threshold level. Carry out follow up application 7 days later if required. The volume of spray mixture to be applied per ha depends on the plant size and canopy density. Ensure good coverage of target area.

CROP/PEST	DOSAGE/HA	REMARKS
MAIZE, SWEETCORN AND SORGHUM Maize Stalkborer (<i>Busseola fusca</i>) Sorghum Stalkborer (<i>Chilo partellus</i>) Fall army worm (<i>Spodoptera frugiperda</i>) Maize Stalkborer (<i>Busseola fusca</i>) Sorghum Stalkborer (<i>Chilo partellus</i>) Fall army worm (<i>Spodoptera frugiperda</i>)	400 ml <u>Row treatment</u> Ground application 4 ml UPHOLD™ 360 SC in 3 l water per 100 m row length	Do not apply to crops under drought stress. Apply UPHOLD™ 360 SC to crops that are growing vigorously, and apply up to the stage before the tassels/ears are enclosed by the flag leaf of the maize. Treat before larvae enter the stalks, larvae that have already tunneled into the funnels will not be controlled. Use 300 l/ha spray volume. The first application must be made when 10 % of the plants show shothole damage. For sweetcorn apply when shothole damage is visible. When the larvae are bigger than 10 mm or a re-infestation occurs, a second application may be necessary within 10-14 days after the first application. Larvae that are present in the stems of plants at application will not be controlled. For sweetcorn apply preventatively or as soon as shothole damage is observed. Apply over the funnel of plants and ensure thorough coverage. If re-infestation occurs a repeat application may be required within 10-14 days. The first application must be made when 10% or less of the plants show shothole damage. For sweetcorn apply preventatively or as soon as shothole damage is observed. Apply over the funnel of plants and ensure thorough coverage. If re-infestation occurs a repeat application may be required within 10-14 days. Note: Do not apply UPHOLD™ 360 SC in more than two consecutive applications or in total more than three times per season.

Local Emergency No: +27(0)82-895-0621 (SA only)
24 Hour Emergency Tel No: +32-3-575-5555
Information Hotline Tel No: +27(0)12) 683-5700