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S-PAC

DESCRIPTION:
BOOKLET / 20-32 PG 194 X 62 MM

SCALE:
1:1

ISSUE NO:
SYN001

ISSUE DATE:
30.10.2014

4041464

Active ingredient content:

Mandipropamid.....250 g/L
 Oxathiapiprolin.....30 g/L

Distributor:

Syngenta Zambia Ltd.
 Plot 5255, Mukwa Road
 P.O. Box 33088, Lusaka, Zambia
 Tel.: +260 211 244 766

Manufactured by: Syngenta Crop Protection
 AG, Basel, Switzerland

Shelf-Life: At least 3 years from date of
 manufacturing, in original unopened containers
 stored in a cool dry well ventilated place.

24 HOUR EMERGENCY NUMBER:
 +2601211244766

250 ml

L1072621 ZAMB/03Z
 PPE 4134853



Orondis® Ultra
 250/030 SC

syngenta.

GROUP 49 M 05 FUNGICIDES

**A Soluble Concentrate (SC)
 Fungicide for the control and
 suppression of Oomycete diseases
 (Down Mildew, late blight,
 Phytophthora capsici, Phytophthora
 infestans) in Tomatoes, Cucurbit
 vegetables, and specialty crops.**

KEEP LOCKED UP OUT OF REACH OF CHILDREN

**Before opening the container,
 read the safety advice.**

Hazard statement

Very toxic to aquatic life with long lasting effects.

Precautionary Statement

Collect spillage
 Dispose of contents/ container to an approved
 waste disposal plant.

Batch No.:

Date of Manufacture:

Expiry:



Product names marked ® or ™ the ALLIANCE FRAME
 the SYNGENTA Logo and the PURPOSE ICON
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**WARNING****S-PAC**

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Mode of Action

Orondis® Ultra contains two active ingredients: oxathiapiprolin and mandipropamid.

Oxathiapiprolin inhibits an oxysterol binding protein (OSBP) homologue. Oxysterol binding proteins are implicated in the movement of lipids between membranes, among other processes. Inhibiting OSBP may disrupt other processes in the fungal cell, such as signaling, maintaining cell membranes, and the formation of more complex lipids that are essential for the cell to survive.

Mandipropamid inhibits cellulose synthesis in Oomycete plant pathogens. Mandipropamid acts on the cell wall and does not enter the cell. In the presence of mandipropamid, glucose incorporation into cellulose is perturbed.

Safety Precautions

- Handle with care; avoid splashing / contact; poisonous by swallowing.
- WEAR protective clothing, i.e. boots, gloves, overalls and face protection for mixing and boots, gloves, face protection and overalls for spraying.
- Do not eat, drink or smoke while using this product.
- DANGEROUS TO LIVESTOCK, PETS, FISH, BIRDS AND BEES.
- DO NOT CONTAMINATE DRINKING POOLS, DAMS, RIVERS, WATER-WAYS AND OTHER WATER SUPPLIES.

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- Store in original container UNDER LOCK AND KEY KEEP OUT OF REACH OF CHILDREN. KEEP APART FROM FOOD AND FOODSTUFFS.

For safety when mixing:

- Wear gloves, boots, overalls and eye protection (at least glasses). Undiluted Orondis Ultra can irritate your eyes. If you get it in your eyes wash it out at once. If you spill it on your clothes, change and wash them immediately.
- Triple rinse empty container and pour washings into sprayer tank.

For safety when spraying:

- As with all chemicals avoid contact with the spray.
- Wear overalls and boots.

For safety after spraying:

- Wash yourself. Change and wash your work clothes
- Destroy empty container by cutting or crushing then place in secure disposal site – DO NOT USE it for any other purpose.

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- Wash sprayer thoroughly. Dispose of wash water in a safe manner.

First Aid and Medical Advice:

If you begin to feel unwell, call a doctor, Syngenta emergency number or poison control centre and apply first aid measures as described below. Have the product container, label or Safety Data Sheet with you when calling or when going for treatment.

Inhalation: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or poison control centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

Symptoms of poisoning: Non-specific available but may include nausea, vomiting, dizziness and headaches. Diarrhoea may also occur with associated symptoms

Medical Advice: There is no specific antidote available. Treat symptomatically.

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Note: Never give anything to an unconscious patient and never induce vomiting.

Re-entry interval:

Do not enter treated area until the spray has dried. If earlier entry is required then wear a long sleeved shirt, trousers and impermeable footwear, and impermeable gloves.

Environment and Wildlife:

DO NOT contaminate water bodies with this product or used container.

DO NOT contaminate water bodies when cleaning equipment or disposing of equipment wash water or rinsate.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto adjacent areas, particularly water bodies.

Storage and disposal:

KEEP LOCKED AWAY AND OUT OF REACH OF CHILDREN

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight and away from food and animal feed.

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DO NOT reuse this container for any other purpose.

Triple rinse the empty container before disposal. Single rinse the empty container before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If an empty container collection program is available, replace cap and return clean containers to recycler or designated collection point. If no local empty container collection program available, then break, puncture or crush and bury empty containers in an approved local authority landfill. If no landfill is available, bury the containers below 50 cm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant government regulations.

DO NOT burn empty containers unless it is in an industrial incinerator specifically designed for disposal of hazardous substances.

Accidental Spills

For small spills: Spread absorbent material such as sand, friable soil or vermiculite over the spill. Collect up spill material thoroughly and place it in a waste bin or in a plastic bag and dispose of the collected waste according to local regulation.

Do not flush into water bodies or sewer system.

For large spills: Refer to the Safety Data Sheet.

Note: Spilt product must not be re used.

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DIRECTIONS FOR USE:

Restrictions:

Do not apply by air.

Do not apply if rain or frost is expected or if the crop is wet

Do not spray crops under stress.

Do not spray plants in flower while bees are foraging.

| Crop | Diseases Controlled | Application Rate (ml/Ha) | Min water Volume (L/ha) | Max No. of application per crop | Application Interval (Days) | PHI (Days) |
|----------|--------------------------------------|--------------------------|-------------------------|---------------------------------|-----------------------------|------------|
| Tomatoes | Late blight (Phytophthora infestans) | 400 to 500 | 400 | 4 | 7 – 10 | 3 |

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| | | | | | | |
|-----------|--|------------|-----|---|--------|----|
| Cucumbers | Pseudoperonospora cubensis (PSPECU) | 400 to 500 | 400 | 4 | 7 – 10 | 3 |
| Squash | Pseudoperonospora cubensis (PSPECU) | 400 to 500 | 400 | 4 | 7 – 10 | 3 |
| Melon | Pseudoperonospora cubensis (PSPECU) | 400 to 500 | 400 | 4 | 7 – 10 | 3 |
| Grapes | Downy mildew (Plasmopara viticola (PLAS-VI)) | 670 | 400 | 2 | 7 – 14 | 21 |

Resistance management:

GROUP 49 M 05 FUNGICIDES

Repeated use of products for control of specific plant pathogens may lead to the selection of resistant strains of fungi and result in a reduction of disease control. The mode of action of Oxathiapiprolin, one of the active ingredients in **Orondis® Ultra**, is novel and has been assigned the FRAC code 49. Oxathiapiprolin inhibits an oxysterol binding protein (OSBP) homologue. Oxysterol binding proteins are implicated in the movement of lipids between membranes, among other processes. Inhibiting OSBP may disrupt other processes in the fungal cell, such as signaling, maintaining cell membranes, and the formation of more complex lipids that are essential for the cell to survive. A disease management program that includes rotation and/or tank mixing with fungicides with a different mode of action is essential to reduce the risk of fungicide resistance development. For guidance on a particular crop and disease control situation, consult your country/state extension specialist or official country/state recommendations.

The following restrictions apply to the use of **Orondis® Ultra**:

1. Exposure to **Orondis® Ultra** (or any other FRAC 49-containing product) should not exceed thirty-three percent (33%) of the total period of protection needed per crop.

2. Make no more than two (2) **Orondis® Ultra** (or any other FRAC-49-containing product) applications per season for grapes.1)
3. For crops other than grapes when three (3) or more fungicide applications are made, use **Orondis® Ultra** (or any other FRAC 49-containing product) in no more than 33% of the total number of fungicide applications with a maximum of four (4) applications per crop. Where less than three (3) fungicide applications are made, make no more than one (1) application of **Orondis® Ultra** (or any other FRAC 49-containing product).1)
4. **Orondis® Ultra** applications are to be made preventively and no more than three (3) times in sequence before applying a fungicide with a different mode of action.
5. Where a fungicide with a different mode of action follows **Orondis® Ultra** (or any other FRAC 49-containing product) application(s), this fungicide preferably should have curative activity.
6. Very few foliar fungicides have activity on soil-borne pathogens and the resistance risk associated with these diseases is considered by FRAC (Fungicide Resistance Action Committee) to be low. Where foliar applications of **Orondis® Ultra** (or any other FRAC 49-containing product) are made for the control of soil-borne pathogens, there should be no more than two (2) applications.1)
7. **Orondis® Ultra** (or any other FRAC 49-containing product) must not be used in nursery production of transplanted crops.2)

8. There will be no more than six applications of oxathiapiprolin (or any other FRAC 49-containing product) per year on the same acreage, targeting the same pathogen.3)
9. No foliar fungicide application of oxathiapiprolin-based fungicides (or any other FRAC 49-containing product) should be made following either a seed or soil treatment application of oxathiapiprolin.

Equipment

Orondis® Ultra can be applied with commonly used ground equipment, hose-end, pressurized, greenhouse and hand-held sprayers, air or chemigation equipment, except as otherwise directed, using sufficient water to obtain thorough coverage of plants. Maintain agitation during mixing and application to assure uniform product suspension.

Mixing the product

1. Thoroughly clean spray equipment before using this product.
2. Prepare no more spray mixture than is needed for the immediate application.
3. Keep product container tightly closed when not in use.
4. Add about one half of the required amount of water to the spray or mixing tank.
5. Add the product into the spray tank and add the remainder of the water.

6. Agitate the spray solution before and during application.
7. Do not let the spray mixture stand overnight in the spray tank.
8. Flush the spray equipment thoroughly following each use and apply rinsate to a previously treated area.

Calibration of spray equipment

Spray equipment should be set up to provide accurate, uniform, and thorough coverage of the target crop and minimize potential for spray drift and leaf run off. To ensure the best economical use of the product, calibrate the sprayer before each use.

Application

If using a hand held spray device do not walk through treated area.

- Do not spray during the hot hours of the day, if the foliage is wet or if rain is imminent.
- Do not overdose by overlapping applications or by exceeding the recommended rate.
- To avoid spray drift, do not apply when conditions favour drift beyond the target area.

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For conventional ground application, apply at least 200 L/ha, increasing the spray volume as the plants mature to ensure thorough coverage of the foliage.
If a rate range is available, use the higher rates when disease is present, for longer application intervals, or for susceptible varieties.

Cleaning of equipment

Clean all equipment thoroughly with water after use.

Legal Aspects

Before applying the product read the attached package leaflet.

User's Risk

The user bears the risk for damage resulting from factors beyond the manufacturer's control.

All recommendations for use of the product are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the application, use, storage or processing of the product, the manufacturer cannot accept responsibility therefore.

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Manufacturer

Syngenta Crop Protection AG, Basel, Switzerland

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