A protectant fungicide for the control of potato late blight (*Phytophthora infestans*) (foliar and tuber protection)

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

A suspension concentrate (SC) containing 160 g cyazofamid/L

MAPP No.: 14753

**FOR PROFESSIONAL USE ONLY**

PROTECT FROM FROST

Production date / Batch number: see packaging

24-hour emergency number: 0032 14 58 45 45
Technical enquiries: 01480 403333

This label is compliant with the CPA Voluntary Initiative guidance
This booklet is part of the approved Product Label.

**WARNING**

**H319** Causes serious eye irritation.

**H410** Very toxic to aquatic life with long lasting effects.

**P264** Wash hands, forearms and face thoroughly after handling.

**P273** Avoid release to the environment.

**P280** Wear eye protection.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

**P391** Collect spillage.

**P501** Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**EUH401** To avoid risks to human health and the environment, comply with the instructions for use.

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:

**WEBLINK** to specific data sheet on manufacturer’s website:

[www.beichim.co.uk/pdf/MSDS/RanmanTop_MSDS.pdf](http://www.beichim.co.uk/pdf/MSDS/RanmanTop_MSDS.pdf)

Alternatively, contact your supplier.

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**Specimen**
IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crop/Situations: Max. individual dose: (L product/ha) Max. number of treatments per crop Latest time of application

Potatoes 0.5 6 7 days before harvest

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTIVE PRODUCTS.

SAFETY PRECAUTIONS
Operator Protection
- Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
  - WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
- Avoid CONTACT with EYES. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- IF YOU FEEL UNWELL, seek medical advice immediately and show this container or label.
  - KEEP ALL PROTECTIVE CLOTHING thoroughly after use, especially the mitts of gloves.
  - WHEN USING DO NOT EAT, DRINK OR SMOKE.
  - WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

Environmental Protection
- Do not contaminate water with the product or its container. Do not clean equipment near watercourses or irrigation systems. Avoid contamination via drains from farmyards and roads.
- Do not empty into drains.
- Use appropriate containment to avoid environmental contamination.

Storage and Disposal
- KEEP OUT OF REACH OF CHILDREN.
- KEEP AWAY FROM FOOD AND DRINK AND ANIMAL FEEDING STUFFS. Do not contaminate water with the product or its container. Keep container tightly closed in a safe place.
- Rinse container thoroughly by using an integrated pressure rinsing device or concentrate for rinsing three times. Add to spray at time of filling and dispose of safely.
- DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

IMPORTANT NOTES:
- Do not allow the PRODUCT TO STAND OVERNIGHT.
- Ensure that the spraying equipment and especially nozzles have been thoroughly cleaned before starting spraying, in particular when equipment has been used for other products.
- Spraying equipment should be calibrated prior to use to ensure accurate application.
- Avoid spray drift onto neighbouring crops.
- WASH EQUIPMENT thoroughly immediately after use. Fill the tank with clean water and leave overnight. Spray out before storage or use on other products.

Application
- ENGINEERING CONTROLS may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
- Avoid CONTACT with EYES. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- IF YOU FEEL UNWELL, seek medical advice immediately and show this container or label.
- KEEP ALL PROTECTIVE CLOTHING thoroughly after use, especially the mitts of gloves.
- WHEN USING DO NOT EAT, DRINK OR SMOKE.
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P322 + P331 If eye irritation persists: Get medical advice/attention.
P310 Keep out of sight and reach of children.
P501 Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

RESISTANCE MANAGEMENT:
DO NOT apply more than six sprays of Ranman® Top per crop. In a programme of blight fungicides use a maximum of three consecutive applications of similar product. Top. If further treatments are required, use at least three applications of fungicides having different modes of action to Ranman® Top. Before applying further Ranman® Top, consult your distributor or specialist adviser if guidance is required.

DIRECTIONS FOR USE IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain maximum and safe use of this product.

DISEASES CONTROLLED
Ranman® Top is a fungicide with activity against fungi from the class of Oomycetes, especially against Phytophthora infestans. It is a protectant fungicide and as such it should be applied before blight enters the crop. Depending on the disease pressure, good protection against the disease can be expected over a period of 5 to 10 days.

CROP SPECIFIC INFORMATION
Timing of application:
The first application against potato late blight should be made preventatively, when weather systems forecast a significant disease risk situation; usually this is when the potato leaves meet along the rows (now closure).
Rate of application:
Apply 0.5 l/ha of Ranman® Top. The maximum number of applications per crop Top is 6.

Volume, spray quality and application method:
Ranman® Top should be applied in 200-400 L of water per ha as a MEDIMUM spray quality as defined by BCPC.

Ranman® Top should be applied via tractor mounted or drawn sprayer and must be applied evenly.

Spray schedule
Use according to disease warning sytems or on a systematic program with repeated applications. During periods with heavy disease pressure and during rapid development of the disease you will need to overspray or where crops are irrigated, the sprays should be repeated every 5 to 7 days. In case of exceptional disease pressure, the intervals can be slightly shortened to a 5 day spray interval. Under low disease pressure, especially after flowering, the spray should be repeated at least every 10 days.

Pre-harvest interval:
7 days

Tuber blight control:
Ranman® Top will reduce the percentage of blight affected tubers at harvest and after storage, but should not be relied on in place of end of season products approved with specific claims of control of blight.

SELECTIVITY
Ranman® Top is very selective in potato crops. The product will not cause any adverse effect on the crops.

Mixing
Add a minimum of 50% of the required water into the spray tank, and agitate when adding the required amount of Ranman® Top. Finally add the remaining required water and agitate to ensure thorough mixing. The spray solution agitated until all product is applied. Never prepare more spray solution than required. On emptying the container, RINSE CONTAINER THROUGHOUT. By using an integrated pressure rinsing device or manually rinsing three times. Add washings to spray at time of filling and dispose of container safely.

TANK CLEANING
Ensure that no or only a minimal quantity of product remains in the spray tank after field application. Upon completion dilute the remainder of the spray solution with the tank cleaning water and spray the diluted rest onto the target crop area. Any spillage should be collected and disposed of in appropriate chemical waste. In no way should the spray solution be disposed of in waste water: Do not empty into drains

Do not contaminate water with the product or its container. Use appropriate containment to avoid environmental contamination.

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