

Kunshi®

An agricultural fungicide for the control of foliar blight (*Phytophthora infestans*) and protection against tuber blight in potatoes.

Water dispersible granules (WG) containing 37.5% w/w fluazinam and 25.0% w/w cymoxanil

GROUP 29 27 FUNGICIDES

MAPP No.: 16991 **PROTECT FROM FROST**

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H361fd - Suspected of damaging fertility Suspected of damaging the unborn child
H373 - May cause damage to the blood and thymus through prolonged or repeated exposure if swallowed
H410 - Very toxic to aquatic life with long lasting effects

P261 - Avoid breathing dust.
P280 - Wear protective gloves, protective clothes and eye protection/face protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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.
EUH210 - Safety data sheet available on request.

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WARNING

Net contents: **5kg e**

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.



This product label is compliant with the CPA Voluntary Initiative guidance.

Production date / Batch number: see packaging

24-hour emergency number: 003214584545
Technical enquiries: 01480 403333

For Professional Use Only
IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

For use on potatoes.
Maximum individual dose: 500 g product/ha.
Maximum number of treatments: 8 per crop.
Latest time of application: 7 days before harvest.
Other specific restrictions:
1) When used on crops/situations with a greater than 5m aquatic buffer zone this product must not be applied via hand-held equipment.
2) Unprotected persons must be kept out of treated crops for at least 3 days after treatment.
3) A minimum interval of 7 days between applications must be observed. See 'Crop Specific Information' section for further timings.

The following Aquatic Buffer Zone must be observed:

Crops/situations: **Potato**
Aquatic buffer zone distance (metres): **6**
Comment: **see Environmental Protection Phrases 1 & 2**

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 PROTECTION PRODUCTS.

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SAFETY PRECAUTIONS

(a) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RESPIRATORY PROTECTIVE EQUIPMENT (disposable filtering facepiece respirator to at least EN 149 FFP2, or equivalent) when handling the product.
- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

UNPROTECTED PERSONS MUST BE KEPT OUT OF TREATED AREAS FOR AT LEAST 3 DAYS AFTER TREATMENT

TAKE OFF IMMEDIATELY all contaminated clothing.
WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

WASH HANDS AND EXPOSED SKIN before eating and drinking or smoking and after work.

(b) Environmental protection

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies as specified for the crop. **HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY.** Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30m from the top of the bank of any surface water bodies.

Crops/situations with >5m buffer zone: Since there is a risk to aquatic life from use, do not allow direct spray from horizontal boom sprayers to fall within 6m of the top of the bank of any static or flowing water body, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.

Buffer zones must be measured in accordance with the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides – Horizontal Boom Sprayers' available from the HSE Chemicals Regulation Directorate's website and any amendments made to it.

The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and

can be copied).

THIS PRODUCT IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See Directions for use.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

This leaflet is part of the approved Product Label.

DIRECTIONS FOR USE

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

DISEASES CONTROLLED

KUNSHI is an agricultural fungicide for the control of foliar blight (*Phytophthora infestans*) and protection against tuber blight in potatoes

CROP SPECIFIC INFORMATION

Timing

1. Initial Application

KUNSHI is a protectant fungicide and therefore the spray programme must start BEFORE blight enters the crop.

Irrespective of the crop growth stage, commence spraying as soon as an official blight warning has been issued or when local weather conditions are favourable for the infection of the disease, whichever is the sooner. Otherwise, in the absence of weather conducive to disease development, the first application should be made as soon as plants meet in the row (approximately 15-30 cm high).

2. Repeat Applications

Intervals between applications of KUNSHI should be reduced as blight risk increases, so that **protection** of the crop can be maintained, as follows:

Risk situation	Further information	Interval	Rate kg/ha
Low	Applications should be made as a precautionary measure, before conditions conducive to blight development have occurred	10-14 days	0.4
High	Following two warm, humid days or in irrigated crops	7-10 days	0.4
Severe	During continued warm, humid weather and when blight is in nearby crops, potato dumps or volunteer plants	7 days	0.5

N.B. Potato blight fungicides may not give complete protection when the disease risk is severe. However, disease development

will be delayed with a well-timed spray programme.
Up to eight (8) applications of KUNSHI may be made to a crop.

Avoid spraying within 5m of the field boundary to reduce the effects on non-target insects or other arthropods.

3. For protection against Tuber Blight

To reduce the risk of problems with tuber blight at harvest KUNSHI should be used regularly at the recommended intervals from full canopy development to pre-harvest interval or complete haulm desiccation, when possible.

Rates of Use

Apply 400-500 g/ha of KUNSHI at each treatment dependent upon blight pressure.

4. Crops grown for processing

On crops grown for processing, consult processor before use.

MIXING AND SPRAYING

Apply KUNSHI in 200 to 500 litres of water per hectare. Use adequate water to ensure complete coverage of the foliage and stems, increasing the volume as haulm growth progresses, particularly in dense crops and under high or severe blight risk conditions.

Ensure spraying is carried out under good conditions and avoid spray drift onto non-target plants and crops.

Apply to dry foliage. DO NOT apply if rain or irrigation is imminent.

Application Details

1. **Application Equipment:** Apply KUNSHI through tractor drawn or mounted, conventional hydraulic crop spraying equipment.
2. **Sprayer Preparation:** Ensure that the sprayer is clean and calibrated correctly, to give even application. Apply at the recommended water volumes, appropriate for the density of the crop, using a MEDIUM quality spray (as defined by British Crop Protection Council guidelines) ensuring good coverage of the foliage.
3. **Spray Pressure:** at least 2 bar.
4. **Mixing:** Before mixing KUNSHI, first part fill the spray tank with clean water and commence agitation. Then, open the KUNSHI container and add the required amount of product to the sprayer using a filling device (e.g. induction bowl, probe etc), or otherwise by direct addition to the spray tank.

Wash out empty container thoroughly and add washings to the sprayer. Preferably use an integrated pressure rinsing device; otherwise manually rinse the container two to three times. DO NOT RE-USE CONTAINER FOR ANY PURPOSE. Agitate spray tank contents thoroughly whilst filling and throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal-breaks or overnight).

Never prepare more spray than is required.

5. **Tank cleaning:** Wash measuring and spray equipment thoroughly after use.

Disease Resistance

KUNSHI contains a mixture of cymoxanil (a cyanoacetamide-oxime fungicide) and fluazinam (a 2,6-dinitro-Aniline fungicide). The multi-site activity of KUNSHI and the fact of combining 2 substances with different modes of action means that resistance in *Phytophthora infestans* populations is not likely to develop. The use of KUNSHI in blight spray programmes is therefore useful as part of an anti-resistance strategy.

When fungicides with the same mode of action are used repeatedly over several years in the same field, naturally occurring less sensitive strains may survive, propagate and become dominant in that field. It is therefore advised that wherever possible spray programmes should include fungicides with differing modes of action. KUNSHI contains active substances with two different modes of action. The use of KUNSHI in blight spray programmes is therefore useful as part of an anti-resistance strategy. For further advice on resistance management for potato blight (*Phytophthora infestans*) contact your agronomist or specialist advisor and/or visit the FRAG-UK and Potato Council websites.

THIS PRODUCT IS TO BE USED ONLY IN ACCORDANCE WITH THE RECOMMENDATIONS AND INSTRUCTIONS GIVEN ON THE LABEL PROVIDED WITH THIS PACK. USE IN ANY OTHER CIRCUMSTANCES IS ENTIRELY AT THE USER'S RISK.

ISK Biosciences Europe N.V., as the Seller, shall be under no liability (except for liability for death or personal injury resulting from the negligence of the seller) whether in contract or in tort for or in respect of any loss or damage resulting from an arising out of the mixing or sequential use, of the goods with any other goods (whether the Seller or any third-party) otherwise than in accordance with the Seller's Recommendations for Use, or resulting from or arising out of the use of the goods in or before abnormal weather conditions or in unusual soil conditions notwithstanding that such conditions may be known or may have been known to the Seller or on plant varieties not known to the Seller to be abnormally susceptible to damage by the goods.

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.belchim.co.uk/pdf/MSDS/Kunshi_MSDS.pdf

Alternatively, contact your supplier.



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