



BELCHIM
C R O P P R O T E C T I O N

KUNSHI®

Version and date: Version 1 Spring 2016

Changes since last version: New product

FORMULATION AND ACTIVE INGREDIENT: Water dispersible granule (WG) formulation containing 37.5% w/w fluazinam and 25.0% w/w cymoxanil. An agricultural fungicide for the control of late foliar blight (*Phytophthora infestans*) and protection against tuber blight in seed and ware potatoes (early and maincrop).

PACK SIZE: 0.5 – 5 KG e



PCS No.: 04785




**PROTECT FROM FROST
FOR PROFESSIONAL USE ONLY
FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE**

Crops/situations :	Seed and Ware potatoes (early and maincrop)
Max. individual dose:	500g product/ha
Max. number of treatments (per year)	8 per crop
Max. total dose	4.0 kg/ha
Latest time of application :	7 days before harvest
Specific diseases controlled:	Late blight caused by <i>Phytophthora infestans</i>
Other specific restrictions: 1) Unprotected persons must be kept out of treated crops for at least 3 days after treatment. 2) A minimum interval of 7 days between applications must be observed. See 'Crop Specific Information' section for further timings.	

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

KUNSHI® is a registered trademark of ISHIHARA SANGYO KAISHA Ltd, Japan

RISK AND SAFETY INFORMATION

	KUNSHI	Water dispersible granule (WG) formulation containing 37.5% w/w fluazinam and 25.0% w/w cymoxanil.
WARNING		May cause an allergic skin reaction Causes serious eye irritation Suspected of damaging the unborn child Very toxic to aquatic life with long lasting effects
		Avoid breathing vapours or spray. Wear protective gloves and clothing, eye and face protection. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean triple-rinsed containers which can be disposed of as non-hazardous waste
		To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.
		To avoid risks to human health and the environment, comply with the instructions for use.

SAFETY PRECAUTIONS

Operator Protection

Engineering control or 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.
- 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.

Environmental protection

- To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

- 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 yards and roads.

Storage and disposal

- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
- 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 read carefully 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 seed and ware potatoes (early and maincrop).

CROP SPECIFIC INFORMATION

Timing

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).

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	0.5
High	Following two warm, humid days or in irrigated crops.	7–10 days	0.5
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.

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 500 g/ha of KUNSHI at each treatment..

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

Application Equipment: Apply KUNSHI through tractor drawn or mounted, conventional hydraulic crop spraying equipment.

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.

Spray Pressure: at least 2 bar.

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 the 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.

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 mean 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.

TECHNICAL ENQUIRIES:	00 353 1 4688900
24 HOUR EMERGENCY NUMBER:	0032 1458 4545

**Marketing company: Belchim Crop Protection Limited
1b Fenice Court, Phoenix Park, Eaton Socon, St. Neots, Cambridgeshire PE19 8EW**

Tel : 01480 403333	Fax : 01480 403444
www.belchim.co.uk	Info-uk@belchim.com
Weblink: www.belchim.co.uk/pdf/MSDS/Kunshi_MSDS	

KUNSHI® is a registered trademark of Ishihara Sangyo Kaisha Ltd, Japan

Approval holder:

ISK Biosciences Europe NV
Pegasus Park
De Kleetlaan 12B – Box 9
B-1831 Diegem
Belgium

Distributed by:

Whelehan Crop Protection
Suite 12 Bunkilla Plaza
Bracetown Business Park
Clonee
Co Meath
Ireland