

KEEP OUT OF REACH OF CHILDREN

Kasumin®

Bactericide

For the management of
Pseudomonas syringae pv. actinidiae (Psa) in Kiwifruit
(Limited Claim - Not Fully Proven).

Read the Label Carefully before use

Active ingredient:
contains 20 g/litre kasugamycin as the
hydrochloride hydrate salt in the form of a soluble concentrate.



AGRECOVERY

Group

24

Bactericide

Registered to:
Etec Crop Solutions Limited
PO Box 51584, Pakuranga 2140
Auckland, New Zealand

Phone: 0800 100 325
www.etec.co.nz

Etec
CROP SOLUTIONS

HSNO Classifications 6.1E, 6.8B, 6.9B

Must be under the control of an Approved Handler at all times.

Record keeping: A record must be kept for all use and these must include details of the spray drift mitigation measures implemented. Records must be kept for four years.

CAUTION: May be harmful if inhaled or absorbed through the skin. Avoid skin contact and inhalation of spray mist.

WARNING: Reproductive/developmental toxicant. Target organ systemic toxicant. Regular exposure to high doses may result in damage to the reproductive system and kidneys.

ENVIRONMENTAL WARNING: Kasumin contains the bactericide, kasugamycin, and may be harmful to beneficial organisms, such as predatory mites, earthworms, and bees and other pollinators. Kasumin must not be applied onto, over or into water

PRECAUTIONS: Avoid contact with skin and eyes. Avoid breathing spray mist.

HANDLING PRECAUTIONS: Do not eat drink or smoke while using. Wash hands and face before meals and after work. Wash protective clothing after work. Wash thoroughly with soap and water after handling and before eating, drinking, or using the toilet.

Full personal protection equipment (PPE) when mixing or applying includes: wearing a long-sleeved shirt, long pants, gloves, footwear plus socks and a hat for overhead exposure.

Wash PPE, using a detergent and hot water. Keep and wash PPE separately from other laundry. Wash splashes of concentrate from skin and eyes immediately.

Contact Re-entry Interval: Persons re-entering treated areas within 48 hours must wear full PPE as described above. In the following 5 days, if handling the crop gloves must be worn to prevent skin contact.

STORAGE: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Storage must be in accordance with the current version of NZS8409 Management of Agrichemicals. When stored appropriately this product should show no significant degradation for 24 months from the date of manufacture

PRODUCT DISPOSAL: Ensure unwanted product is used by another operator strictly in accordance with label directions.

CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Recycle through the Agrecovery Programme. If this is not possible, crush and bury in an approved landfill.

SPILLAGE: In case of spillage, confine spilled product with material such as sand or clay. Dispose of waste as indicated below or according to local Regional Council regulations.

FIRST AID: If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

GENERAL INFORMATION: Kasumin is a bactericide that works as a preventative to plant infection. The active ingredient kasugamycin operates via a bactericidal mode of action that is different from other bactericides such as streptomycin. Because kasugamycin is active only against pathogenic fungi and bacteria in plants, it has never been employed as a human or veterinary medicine and there are no human or veterinary uses of kasugamycin. Kasumin may be applied at a maximum application rate of 100 g kasugamycin/ha per application; and up to four applications of Kasumin per year, with a minimum interval of 10 days between applications

RAINFASTNESS: Rainfast after 2 hours drying time.

COMPATIBILITY: Compatible with Copper based products, Actigard® and three way combinations of these products. Apply tank mixtures within 4 hours.

ENVIRONMENTAL CONSIDERATIONS: Bees: Do not apply if there are any flowers present in the orchard that may be exposed to the spray either directly or as a result of drift.

If there are flowering weeds or clover under the crop to be treated, mow prior to treatment.

GENERAL: The addition of Drift Stop® is recommended where drift onto non target areas may occur. Do not apply in winds stronger than 5 Kph.

RESISTANCE MANAGEMENT: Kasumin must be used in a programme with other plant protection products that are active on and recommended for the management of Psa. Prolonged use of Kasumin alone against Psa and other diseases may lead to the development of resistant strains. Do not apply more than 2 consecutive applications of Kasumin and limit use to a maximum of four applications per cropping season/year. Kasumin and Keystrepto® may be used in alternation but not as a tank mix. The combined total of Kasumin and Keystrepto® applications per season must not exceed 6.

DIRECTIONS FOR USE: By Law, this product may only be used according to label directions. Kasumin can only be used at sites registered with KVH. Users must be familiar with and meet the mandatory requirements specified in the conditions of registration - see www.foodsafety.govt.nz or contact ETEC Crop Solutions Limited and refer to the KVH information for Kasumin. Contact KVH for User Guidelines.

The following recommendations are based on limited New Zealand data from laboratory, greenhouse and potted field trials and from field use in Japan against Psa in kiwifruit. Any adverse event resulting from the use of this product should be notified to ETEC Crop Solutions Limited as this product only has a limited claim and is not fully proven at this stage use is at the user's own risk.

TIMING: Make the first application when conditions that favour disease infection are anticipated. Use in a programme with alternative products.

DIRECTIONS:

Use Rate 500 ml / 100 litres of water. Apply in 600 to 1000 litres of water per hectare. (Observe current KVH best practice guidelines)

The addition of Drift Stop® at 100 ml / 100 litres is recommended to minimise drift.

Crop	Disease	Critical Comments
Kiwifruit	Pseudomonas syringae pv. actinidiae - Psa	Kasumin may be applied once sufficient foliage has developed and up to 21 days before any flowers are open. Apply before or as soon as possible after conditions occur that are favourable to Psa. infection. – e.g. hail and wind damage, pruning etc. Apply at 10 – 14 day intervals as required. Make no more than two consecutive applications in a programme that includes alternative control options- eg. Copper products. Kasumin may be applied to fruiting vines in the post harvest period and in the Spring before flowering begins. Kasumin may be applied to non-producing vines throughout the season provided that they are not in flower and no drift onto fruiting vines can occur. A non-producing vine is a vine that will not produce fruit for human or animal consumption (i.e. male, immature or grafted vines). Kasumin must only be applied as a surface/foliar spray via ground-based methods. No injection of any kind is permitted.
	This claim is supported by limited field data and is not fully proven at this stage.	

WITHHOLDING PERIOD:

Do not apply on fruiting blocks later than 21 days before any flowers are open.

Do not allow livestock to graze in treated orchards.

Sprayer Clean up: To avoid the potential for residues on crops treated after use of Kasumin, spray tanks, lines and nozzles should be cleaned with All-Clear® 2X

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards

EXCLUSION OF LIABILITY: PLEASE READ

To the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

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24 Hour Emergency Response
0800 CHEM CALL
0800 243 622

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Drift Stop is a Registered Trademark of Nufarm Ltd

LI-700 is a registered trademark of Loveland Products Inc, USA

Registered pursuant to the ACVM Act 1997, No. P8603

See www.foodsafety.govt.nz for registration conditions.

HSNO Approval Code HSR100889

Keystrepto is a registered trademark of Key Industries Ltd

Actigard is a registered trademark of a Syngenta Group company

Batch No.

DOM:

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170H X 190W