

Bottle label

SAFETY PRECAUTIONS

- Keep out of reach of children
- May cause sensitization
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Wear a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. It is important to wear gloves for the mixing /loading operation and when making sprayer and nozzle repairs and adjustments.
- Do not handle this product with bare hands. Follow the manufacturer's instructions for cleaning / maintaining personal protective equipment. If no such instructions for washables are available, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.
- Change contaminated clothing daily and wash before use. Remove clothing immediately if pesticide gets inside. Shower immediately and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves and leave on before removing any protective clothing. As soon as possible shower and change into clean clothing.
- Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
- RESTRICTED ENTRY INTERVAL: DO NOT enter or allow worker entry into treated areas (including greenhouses where crops have been treated) during the restricted entry interval (REI) of 12 hours following application.
- TRIPLE RINSE: Empty containers in the following manner: Invert over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening.

FIRST AID

- If in eyes:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, continue rinsing. Call a poison control centre or doctor for treatment advice.
- If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
- If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
- If swallowed:** Call a poison control centre or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

ADVICE TO PHYSICIAN

There is no specific antidote. Treat symptomatically. Probable mucosal damage may contraindicate gastric lavage. Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **Kasugamycin 4SL Bactericide** contains a Group 24 bactericide. Any microbial population may contain individuals naturally resistant to **Kasugamycin 4SL Bactericide** and other Group 24 Bactericides. A gradual or total loss of pest control may occur over time if these bactericides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to the site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To reduce the likelihood of bacteria developing resistance to kasugamycin, sound resistance management practices should be employed when using this product. Such practices include limiting the number of consecutive applications of **Kasugamycin 4SL Bactericide**, and alternating **Kasugamycin 4SL Bactericide** applications with other bactericides that have a different mode of action. See crop specific use directions above. To delay resistance:

- Where possible, rotate the use of **Kasugamycin 4SL Bactericide** with products from different groups that control the same pathogens.
- Do not make more than two consecutive applications of **Kasugamycin 4SL Bactericide** before alternating to a registered bactericide with a different mode of action.
- Use tank mixtures with bactericides from a different group when such use is permitted.
- Kasugamycin 4SL Bactericide** use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices. Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications.
- If disease continues to progress after treatment with this product, do not increase the use rate.

Discontinue use of this product, and switch to another bactericide with a different target site of action, if available.

DIRECTIONS FOR USE: Use only as directed

- This product contains the bactericide kasugamycin. To reduce the development of resistant plant pathogenic bacteria, this product should be used only when required.
- Do NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control.
- Check the sprayer frequently to ensure proper calibration and continued uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

MIXING PROCEDURES

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

1. FRUITING VEGETABLES (GREENHOUSE OR FIELD) AND OTHERS:

Eggplant, Groundcherry, Pepino, Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomato, Tomato

Crop/disease	Application Rate	Recommendations
Tobacco Leads: Negative Leaf Spot	Mix 1.2 L product in 200 L of water and spray 1 hectare of tobacco in the field.	Apply the Kasugamycin 4SL mix at 6, 8, 10 and 12 weeks after transplanting.
Tomatoes: Bacterial Spot (<i>Xanthomonas campestris</i> pv. <i>tomato</i>) Septoria Leaf Blight (<i>Septoria lycopersici</i>) Bacterial Canker (<i>Bacterium chacoense</i>)	200 to 300ml Kasugamycin in 2L of 100L water. Add a wetter to mixture. 300ml Kasugamycin in 2L/100L water. Alternate with a Copper Hydroxide spray.	Scouting: Spray seedbeds weekly prior to any disease symptoms. Leads: Start spraying shortly after transplanting and spray every 7 to 10 days. Use 500ml of mixture per hectare.
Peatoes: Bacterial Soft Rot (<i>Erwinia spp.</i>)	2 L/Lha Add wetter to mixture	Apply first application before rising up to 3 weeks after emergence. Apply for 2-3 sprays 3 weeks apart. Apply as full cover spray with 500-1000L water per hectare.

Manufactured by:

NOVA AGRO (HK) LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONG KONG

KASUGAMYCIN 4 SL

Bactericide/fungicide

Reg. No.: 21-N-6-2

TRB. No.: 24-27-N-158

A soluble concentrate bactericide / fungicide for the control of a variety of bacterial diseases on crops as indicated.

Composition mass/vol.

Kasugamycin.....4.0%
(as hydrochloride hydrate)

Chemical group: aminoglycosidic antibiotic

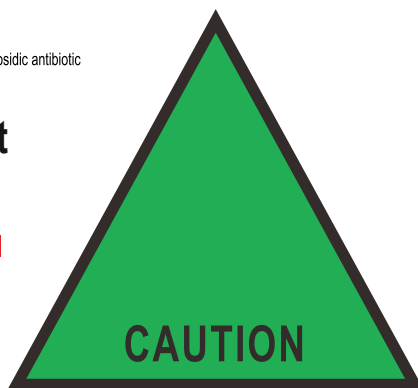
1Litres Net

KEEP OUT OF REACH OF CHILDREN

Supplied by Maguires-

A member of

CropLife Zimbabwe



HARMFUL IF SWALLOWED

TO CAUSE A HAZARD IN THE USE,
STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.

RESTRICTIONS AND OTHER INFORMATION:

- Apply **Kasugamycin 4SL Bactericide** at a 100 ppm concentration.
 - Do not apply more than 0.6L/ha or 240L/ha carrier volume per application.
 - Spray volume must be sufficient to provide good coverage of treated foliage.
 - Follow the mixing directions provided in the table under "Mixing Procedures" to create the desired volume of spray solution.
 - Do not apply more than 1.0L **Kasugamycin 4SL Bactericide** per hectare per year.
 - Do not make more than 3 applications of **Kasugamycin 4SL Bactericide** per season.
 - A minimum interval of 7 days between applications is required.
 - For resistance management purposes, do not apply on greenhouse vegetable transplants.
 - Do not apply **Kasugamycin 4SL Bactericide** within 1 day of harvest.
 - Do not apply **Kasugamycin 4SL Bactericide** within 100 days of harvest.
- 2. POME FRUIT - (BEARING AND NONBEARING):**
Apple, Avocado, Cabaiasin, Malayaw Medlar, Pear, Asian Pear, Quince, Chinese Quince, Japanese Quince, Tejacote, Cultivars, varieties and/or hybrids of these commodities

Disease Control	Application Rate	Application Timing and Resistance Management
Fire Blight (<i>Erwinia amylovora</i>)	100 ppm (e.g., 2.5L/ha in 1000L/ha of water)	<ul style="list-style-type: none"> Spray volume must be sufficient to provide good coverage of treated foliage. Reduced spray volumes may be utilized for small trees where complete coverage can be obtained with less water per hectare. Begin applications at 20 - 30% bloom or when conditions favour disease development. Repeat applications at 7-day intervals or when conditions favour disease development.

RESTRICTIONS AND OTHER INFORMATION:

- Apply **Kasugamycin 4SL Bactericide** at a 100 ppm concentration.
- Do not apply more than 5L/ha or 1000 L/ha carrier volume per application.
- Spray volume must be sufficient to provide good coverage of treated foliage.
- Follow the mixing directions provided in the table under "Mixing Procedures" to create the desired volume of spray solution.
- Do not apply more than 10.0 L of **Kasugamycin 4SL Bactericide** per hectare per year.
- Do not make more than 4 applications of **Kasugamycin 4SL Bactericide** per season.
- For resistance management purposes, do not apply on greenhouse vegetable transplants.
- Do not use alternate tree-row application method.
- Do not apply after petal fall.
- Do not apply **Kasugamycin 4SL Bactericide** within 90 days of harvest.

3. WALNUT

Disease Suppression	Application Rate	Application Timing and Resistance Management
Walnut Blight (<i>Xanthomonas campestris</i> pv. <i>juglandis</i>)	100 ppm (e.g., 2.5L/ha in 1000 L/ha of water)	<ul style="list-style-type: none"> Spray volume must be sufficient to provide good coverage of treated foliage. Reduced spray volumes may be utilized for small trees where complete coverage can be obtained with less water per hectare. Begin applications when conditions favour disease development.

RESTRICTIONS AND OTHER INFORMATION:

- Apply **Kasugamycin 4SL Bactericide** at a 100 ppm concentration.
- Do not apply more than 2.5L/ha or 1000L/ha carrier volume per application.
- Spray volume must be sufficient to provide good coverage of treated foliage.
- Follow the mixing directions provided in the table under "Mixing Procedures" to create the desired volume of spray solution.
- Do not apply more than 10.0 Litres of **Kasugamycin 4SL Bactericide** per hectare per year.
- Do not make more than 4 applications of **Kasugamycin 4SL Bactericide** per season.
- A minimum interval of 14 days between applications is required.
- Do not make more than two consecutive applications of **Kasugamycin 4SL Bactericide**. If additional applications are needed, rotate with another product with a different mode of action that is registered for this use.
- Do not use alternate tree-row application method.
- Do not apply after petal fall.
- Do not apply **Kasugamycin 4SL Bactericide** within 100 days of harvest.

DISCLAIMER: Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence of resistance of weeds against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.



- Triple rinse clean container after use.
- Puncture holes in bottom.
- Return to Maguires recycling facility/- Return to your nearest recycling facility.

Batch No.:20250604 Date of Mfg.: 04 JUN. 2025 Date of Exp.: 04 JUN. 2028

Registration held by:

MAGCHEM (PVT) LIMITED
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE

Carton label

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