

PEEL HERE
TO OPEN 

GROUP 24 FUNGICIDE

Kasumin[®] 2L

bactericide

For Agricultural Use Only

For Control of Fireblight in Pome Fruit Group (Crop Group 11 - 10)

INGREDIENTS

By wt.

Active Ingredient

*Kasugamycin Hydrochloride Hydrate 2.3%

Other Ingredients **97.7%**

Total **100.0%**

*(Equivalent to 2.0% kasugamycin)

Contains 0.168 pounds kasugamycin per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCIÓN

See inside of booklet for additional Directions for Use and Precautionary Statements.

For Product Information Call: 1-866-761-9397

Produced For:
Arysta Lifescience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

EPA Reg. No. 66330-404
EPA Est. No. 070815-GA-001
060816V001
103137-C(0118)

NET CONTENTS: 2.5 GALLONS



FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by the poison control center or doctor. • Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: Call **PROPHARMA** at 1-866-303-6952 or +1-651-603-3432 if calling from outside of the U.S.
FOR 24-HOUR CHEMICAL EMERGENCY: (Spill, leaks, fire, exposure or accident) call **CHEMTREC** 1-800-424-9300 or +1-703-527-3887 if calling from outside of the U.S.

For Product Information Call: 1-866-761-9397

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear protective eyewear (protective eyewear may be specified), long-sleeved shirt and long pants, chemical resistant gloves, socks and shoes. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and notification to workers.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, plants, soil, or water wear; coveralls, shoes, socks, and chemical resistant gloves made of any waterproof material, such as nitrile, butyl, neoprene, and/or barrier laminate.

PRODUCT INFORMATION

KASUMIN® 2L is a liquid formulation containing 2 percent kasugamycin. Kasugamycin is a bactericide that controls the bacteria *Erwinia amylovora*, which causes fire blight in pome fruit.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

KASUMIN 2L must be applied using properly calibrated, conventional ground application equipment appropriate for the type of crop treated. Use sufficient water volume to obtain thorough uniform coverage of all plant surfaces, especially open blooms.

Additives: The addition of a wetting agent or spreader/sticker may enhance efficacy of **KASUMIN 2L**.

Resistance Management:

KASUMIN 2L (kasugamycin) is a Group 24 fungicide. The mode of action for **KASUMIN 2L** is the inhibition of protein synthesis. This product should be used to treat or prevent infections that are proven or strongly suspected to be caused by *Erwinia amylovora*. To reduce the likelihood of bacteria developing resistance to kasugamycin, follow the crop specific resistance management and use direction information present on this labeling. Use of this product should conform to resistance management practices/strategies established for the crop and use area, (for example the use of IPM, disease forecasting models, resistant crop varieties, etc.). Consult your local extension/crop consultant or State agricultural authority if reduced efficacy is suspected.

POME FRUIT GROUP (CROP GROUP 11-10)*

Apple*; crabapple*; **mayhaw*;** pear, Asian*; **quince*;** quince, Chinese*; **quince, Japanese*;** European pear *

Disease Control	Application Rate to Use	Application Timing and Resistance Management
Fire Blight (<i>Erwinia amylovora</i>)	64 fl oz/A	<ul style="list-style-type: none">• Apply at a rate of 64 fl oz/A in 100 gal of water. 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 a less than 100 gal of water/A.• Begin applications during bloom when conditions favor disease development.• Repeat applications at 3-6 day intervals or when conditions favor disease development.

RESTRICTIONS:

- Do not make more than 4 applications of **KASUMIN 2L** per year.
- **In California:** Do not make more than 2 applications of **KASUMIN 2L** per year.
- Do not make more than two consecutive applications of **KASUMIN 2L**. If additional antibiotic applications are needed, utilize an alternate product registered for this use. Two more consecutive **KASUMIN 2L** applications may be made subsequent to use of the alternate registered product.
- Do not apply more than 256 fl oz of **KASUMIN 2L** per acre per year.
- **In California:** Do not apply more than 128 fl oz of **KASUMIN 2L** per acre per year.
- Do not use alternate tree-row application method
- Do not apply more than 64 fl oz/A in a single application.
- Do not apply after petal fall.
- Do not apply **KASUMIN 2L** within 90 days of harvest.
- PHI = 90 days.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure.
- Animal grazing in treated areas is prohibited. The public must be notified by posting restriction signs along the perimeter of the treatment area.
- Use only the specified and full strength application rates.

STORAGE AND DISPOSAL

Offer for recycling if available. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a dry place away from excessive heat. Do not store near food or feed. Store in original container only.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Rigid, nonrefillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or puncture and dispose of in a sanitary landfill, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER STATEMENT

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

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IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything to an unconscious person.
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