



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

66330-404

Date of Issuance:

3/1/18

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Expiration Date: 3/1/2025

Term of Issuance:

Unconditional

Name of Pesticide Product:

Kasumin 2L

Name and Address of Registrant (include ZIP Code):

Rodney Akers
 Arysta Lifescience North America LLC
 15401 Weston Parkway, Suite 150
 Cary, NC 27513

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5), automatically expiring on 3/1/2025. The following terms apply:

- 1) Resistance Management Plan implementation (e.g. education/training and stewardship plan). A yearly summary report describing the Resistance Management Plan implementation details must be submitted to the Registration Division by December 31st of each year for confirmatory purposes.
- 2) Annual sales reports listed per state, submitted by Arysta Lifescience North America, LLC to the Registration Division by December 31st of each year

Signature of Approving Official:

Cynthia Giles-Parker, Chief
 Fungicide Branch, Registration Division (7505P)

Date:

3/1/18

- 3) One year prior to expiration, if you choose to seek an extension of your Registration, you are required to submit an application for extension along with a revised assessment on the development of kasugamycin resistance in human pathogens addressing release, exposure, consequence assessments and overall risk estimation with regard to public health effects resulting from cumulative usage of kasugamycin on all registered crops in all states where it is registered and used. The Agency will consult with the federal partners to reevaluate the current risk picture for kasugamycin prior to deciding to extend or remove the time limitation on this registration, or allow the Registration to expire.
- 4) You are required to comply with the original term of registration for pome fruit crop group 11-10 by submitting a revised FDA Guidance #152 assessment (assessment on the development of kasugamycin resistance in human pathogens addressing release, exposure, consequence assessment and overall risk assessment with regard to public health effects resulting from cumulative usage of kasugamycin) on the pome fruit crop group 11-10 uses as scheduled by June 2018. The Agency views this submission as confirmatory.
- 5) You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
- 6) Submit one copy of the revised final printed label for the record before you release the product for shipment.

Note: The Agency reserves the right to call in monitoring data and/or additional laboratory isolate data (if additional isolates are identified to be tested) at later time

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

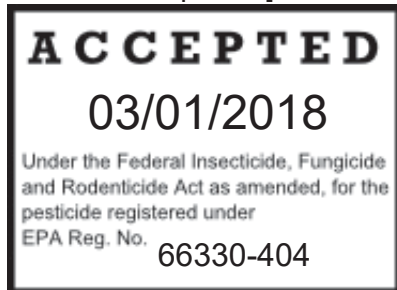
- Basic CSF dated 7/13/2015
- Alternate CSF 1 dated 7/13/2015

If you have any questions, please contact the Product Manager, Hope Johnson, by phone at 703-305-5410, or via email at johnson.hope@epa.gov.

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EPA Reg. No. 66330-404
Decision No. 513996

Enclosure -stamped "accepted" labels

[Text in brackets is optional]



KASUGAMYCIN	GROUP	24	FUNGICIDE
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KASUMIN® 2L
For Agricultural Use Only

**FOR CONTROL OF BACTERIAL DISEASES IN CHERRY (CROP SUBGROUP 12-12A);
POME FRUIT (CROP GROUP 11-10); AND WALNUT**

INGREDIENTS: _____ **% BY WT.**

ACTIVE INGREDIENT:

*Kasugamycin Hydrochloride Hydrate2.3%

OTHER INGREDIENTS:97.7%

TOTAL:100.0%

*(Equivalent to 2.0% kasugamycin)

Contains 0.168 pounds kasugamycin per gallon

Read the label before use

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCIÓN

**Si usted no entiende la etiqueta, busque á alguien para que se la explique á usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)**

**See [front][back][side] Panel for First Aid Instructions and [Leaflet][Booklet] for Complete
Precautionary Statements and Directions for Use.**

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 a 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 MEDICAL EMERGENCY ASSISTANCE CALL PROPBARMA:

1-866-303-6952 or +1-651-603-3432.

FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident)

CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.

EPA Reg. No. 66330-404

xxxxxxV001

EPA Est. No.:

NET CONTENTS:

[Batch Code will be placed on the container.]

Produced For:

ARYSTA LIFESCIENCE NORTH AMERICA, LLC

15401 Weston Parkway, Suite 150

Cary, NC 27513

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)

All applicators and other handlers must wear a minimum of:

- Protective eyewear (goggles, safety glasses or face shield);
- Coveralls over short-sleeved shirt and short pants;
- Chemical-resistant gloves;
- Socks and shoes; and
- NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter (TC-84A); OR an elastomeric NIOSH-approved particulate respirator with any N, R or P filter (TC-84A); OR a NIOSH-approved powered air purifying respirator with an HE filter (TC-21C). Higher level respirators that are NIOSH-approved for particulates that contain oil may also be used.

Applicators must also wear chemical-resistant headgear ensuring full coverage of the neck.

Applicators do not have to wear the protective eyewear, chemical-resistant gloves, chemical-resistant headgear, or a respirator when using closed cab systems that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(e)].

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.607(d) and (e)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

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

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. Intended for use by professional applicators.

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, such as plants, soil, or water; wear coveralls, shoes, socks, and chemical-resistant gloves made of any waterproof material (nitrile, butyl, neoprene, and/or barrier laminate).

PRODUCT INFORMATION

KASUMIN® 2L is a liquid formulation containing 2 percent kasugamycin. Kasugamycin is an antibiotic/bactericide that controls bacterial diseases in Cherry (Crop Subgroup 12-12A); Pome Fruit (Crop Group 11-10); and Walnut. **KASUMIN 2L** is intended for use by professional applicators.

KASUMIN 2L must be applied using properly calibrated, 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. Use only the specified and full-strength application rates.

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

RESTRICTIONS – ALL USES

- This material is not to be used for medical, veterinary or human purposes.
- Do not apply this product by aerial application. Apply by ground equipment only.
- Do not apply this product through any type of irrigation system, including chemigation.
- 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.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.
- Do not apply more than two consecutive applications before alternating with another fungicide/bactericide of a different mode of action.

RESISTANCE MANAGEMENT:

KASUMIN 2L (kasugamycin) is a Group 24 antibiotic/bactericide. Any bacterial population may contain individuals naturally resistant to **KASUMIN 2L** and other Group 24 antibiotics/bactericides. A gradual or total loss of pest control may occur over time if these fungicides/bactericides are used repeatedly in the same fields. 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 the indicated target bacteria. 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.

To delay antibiotic/bactericide resistance, take one or more of the following steps:

1. Rotate the use of **KASUMIN 2L** or other Group 24 fungicides/bactericides within a growing season sequence, or among growing seasons, with different groups that control the same pathogens.
2. Use tank-mixtures with fungicides/bactericides from a different group that are equally effective on the target pest when such use is permitted.

3. Adopt an integrated disease management program for fungicide/bactericide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
4. Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications.
5. Monitor treated bacterial populations for resistance development.
6. If disease continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or antibiotic/bactericide with a different mode of action, if available.
7. Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
For further information or to report suspected resistance contact Arysta LifeScience North America, LLC at 1-866-761-9397.

CHERRY (Crop Subgroup 12-12A); Capulin; Black Cherry; Nanking Cherry; Sweet Cherry; Tart Cherry; and Cultivars, varieties and/or hybrids of these

Disease Control	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Bacterial Blast <i>(Pseudomonas syringae pv syringae)</i>	64 fl oz/A (0.084 lb ai/A)	<ul style="list-style-type: none"> ▪ Apply at a rate of 64 fl oz/A in at least 100 gal of water by ground application. Reduced spray volumes may be utilized for small trees where complete coverage can be obtained with less than 100 gal of water/A. Spray volume must be sufficient to provide good coverage of treated foliage. ▪ Begin applications when conditions favor disease development, from white tip to petal fall. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.
Disease Suppression	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Bacterial Canker <i>(Pseudomonas syringae pv syringae)</i>	64 fl oz/A (0.084 lb ai/A)	<ul style="list-style-type: none"> ▪ Apply at a rate of 64 fl oz/A in at least 100 gal of water by ground application. Reduced spray volumes may be utilized for small trees where complete coverage can be obtained with less than 100 gal of water/A. Spray volume must be sufficient to provide good coverage of treated area. ▪ Begin applications when conditions favor disease development; prior to cold; and when wet conditions occur in the fall and winter (November through February). Check with your local university cooperative extension service or other local experts for the best preventive timing. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.

RESTRICTIONS:

- Do not apply after petal fall.
- Do not apply more than 64 fl oz/A (0.084 lb ai/A) of **KASUMIN 2L** in a single application.
- Do not apply more than 256 fl oz (0.336 lb ai/A) of **KASUMIN 2L** per acre per year.
[In California: Do not apply more than 128 fl oz (0.168 lb ai/A) of **KASUMIN 2L** per acre per year.]
- Do not make more than 4 applications of **KASUMIN 2L** per year with a minimum interval of 7 days between applications.
- [In California: Do not make more than 2 applications of **KASUMIN 2L** per year.]
- Do not apply more than 2 consecutive applications of **KASUMIN 2L** before alternating with another fungicide/bactericide of a different mode of action. If additional bactericide 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 use an alternate tree-row application method.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.
- Animal grazing in treated areas is prohibited. The public must be notified by posting restriction signs along the perimeter of the treatment area.
- Do not apply **KASUMIN 2L** by aerial application.
- **KASUMIN 2L** must be applied at the equivalent of 64 fluid ounces per 100 gallons of water per acre when using less than 100 gallons per acre spray volume.
- Do not apply **KASUMIN 2L** through any type of irrigation system, including chemigation.
- Preharvest Interval (PHI) = 30 days.
- Use only the specified and full-strength application rates.

POME FRUIT (CROP GROUP 11-10)*; Apple*; Crabapple*; Mayhaw*; Asian Pear*; Quince*; Chinese Quince*; Japanese Quince*; European Pear*

Disease Control	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Fire Blight <i>(Erwinia amylovora)</i>	64 fl oz/A (0.084 lb ai/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- to 6-day intervals or when conditions favor disease development. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.

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 apply more than 2 consecutive applications of **KASUMIN 2L** before alternating with another fungicide/bactericide of a different mode of action. If additional bactericide 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 (0.336 lb ai/A) of **KASUMIN 2L** per acre per year.
- [In California: Do not apply more than 128 fl oz (0.168 lb ai/A) of **KASUMIN 2L** per acre per year.]
- Do not use an alternate tree-row application method.
- Do not apply more than 64 fl oz/A (0.084 lb ai/A) in a single application.
- Do not apply after petal fall.
- Do not apply **KASUMIN 2L** within 90 days of harvest. Preharvest Interval (PHI) = 90 days.
- Do not apply **KASUMIN 2L** through any type of irrigation system, including chemigation.
- Do not apply **KASUMIN 2L** by aerial application.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.
- 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.

WALNUT

Disease Control	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Walnut Blight (<i>Xanthomonas campestris pv juglandis</i>)	64 fl oz/A (0.084 lb ai/A)	<ul style="list-style-type: none"> ▪ Apply at a rate of 64 fl oz/A in at least 100 gal of water by ground application. ▪ 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 when conditions favor disease development. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.

RESTRICTIONS:

- Do not apply more than 64 fl oz/A (0.084 lb ai/A) in a single application.
- Do not apply more than 256 fl oz (0.336 lb ai/A) of **KASUMIN 2L** per acre per year.
- **[In California:** Do not apply more than 128 fl oz (0.168 lb ai/A) of **KASUMIN 2L** per acre per year.]
- Do not make more than 4 applications of **KASUMIN 2L** per year with a minimum interval of 7 days between applications.
- **[In California:** Do not make more than 2 applications of **KASUMIN 2L** per year.]
- Do not apply more than 2 consecutive applications of **KASUMIN 2L** before alternating with another fungicide/bactericide of a different mode of action. If additional bactericide 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 use an alternate tree-row application method.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.
- Animal grazing in treated areas is prohibited. The public must be notified by posting restriction signs along the perimeter of the treatment area.
- Do not apply **KASUMIN 2L** through any type of irrigation system, including chemigation.
- Do not apply **KASUMIN 2L** by aerial application.
- Preharvest Interval (PHI) = 100 days.
- Use only the specified and full-strength application rates.

STORAGE AND DISPOSAL

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.

Rigid nonrefillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or puncture and dispose of in a sanitary landfill.

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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Corporation.

The **KASUMIN** logo is a registered trademark of an Arysta LifeScience Group Company.

KASUMIN is a registered trademark of Hokko Chemical Industry Co., Ltd.

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Arysta LifeScience

ACCEPTED

03/01/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 66330-404

SUPPLEMENTAL LABELING

KASUGAMYCIN | GROUP 24 | FUNGICIDE

KASUMIN® 2L

Supplemental Label to Add DIRECTIONS FOR USE on WALNUT.

This supplemental label expires March 1, 2021 and must not be used or distributed after this date.

For Agricultural Use Only

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**

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR **KASUMIN® 2L** BEFORE APPLYING. USE OF **KASUMIN 2L** ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR **KASUMIN 2L (EPA Reg. No. 66330-404)**.

xxxxxxV001Su

WALNUT

Disease Control	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Walnut Blight (<i>Xanthomonas campestris pv juglandis</i>)	64 fl oz/A (0.084 lb ai/A)	<ul style="list-style-type: none"> ▪ Apply at a rate of 64 fl oz/A in at least 100 gal of water by ground application. ▪ 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 when conditions favor disease development. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.

RESTRICTIONS:

- Do not apply more than 64 fl oz/A (0.084 lb ai/A) in a single application.
- Do not apply more than 256 fl oz (0.336 lb ai/A) of **KASUMIN 2L** per acre per year.
- **[In California:** Do not apply more than 128 fl oz (0.168 lb ai/A) of **KASUMIN 2L** per acre per year.]
- Do not make more than 4 applications of **KASUMIN 2L** per year with a minimum interval of 7 days between applications.
- **[In California:** Do not make more than 2 applications of **KASUMIN 2L** per year.]
- Do not apply more than 2 consecutive applications of **KASUMIN 2L** before alternating with another fungicide/bactericide of a different mode of action. If additional bactericide 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 use an alternate tree-row application method.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.
- Animal grazing in treated areas is prohibited. The public must be notified by posting restriction signs along the perimeter of the treatment area.
- Do not apply **KASUMIN 2L** through any type of irrigation system, including chemigation.
- Do not apply **KASUMIN 2L** by aerial application.
- Preharvest Interval (PHI) = 100 days.
- Use only the specified and full-strength application rates.

Produced For:

ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

Arysta LifeScience and the Arysta LifeScience logo are registered trademarks of Arysta LifeScience Corporation.

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Arysta LifeScience

SUPPLEMENTAL LABELING

KASUGAMYCIN | GROUP 24 | FUNGICIDE

KASUMIN[®] 2L

Supplemental Label to Add DIRECTIONS FOR USE on CHERRY (Crop Subgroup 12-12A); Capulin; Black Cherry; Nanking Cherry; Sweet Cherry; Tart Cherry; and Cultivars, varieties and/or hybrids of these.

This supplemental label expires March 1, 2021 and must not be used or distributed after this date.

For Agricultural Use Only

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**

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR **KASUMIN[®] 2L** BEFORE APPLYING. USE OF **KASUMIN 2L** ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR **KASUMIN 2L** (EPA Reg. No. 66330-404).

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ACCEPTED
03/01/2018
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 66330-404

CHERRY (Crop Subgroup 12-12A); Capulin; Black Cherry; Nanking Cherry; Sweet Cherry; Tart Cherry; and Cultivars, varieties and/or hybrids of these

Disease Control	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Bacterial Blast <i>(Pseudomonas syringae pv syringae)</i>	64 fl oz/A (0.084 lb ai/A)	<ul style="list-style-type: none"> ▪ Apply at a rate of 64 fl oz/A in at least 100 gal of water by ground application. Reduced spray volumes may be utilized for small trees where complete coverage can be obtained with less than 100 gal of water/A. Spray volume must be sufficient to provide good coverage of treated foliage. ▪ Begin applications when conditions favor disease development, from white tip to petal fall. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.
Disease Suppression	Application Rate fl oz product (lbs ai)	Specific Use Instructions
Bacterial Canker <i>(Pseudomonas syringae pv syringae)</i>	64 fl oz/A (0.084 lb ai/A)	<ul style="list-style-type: none"> ▪ Apply at a rate of 64 fl oz/A in at least 100 gal of water by ground application. Reduced spray volumes may be utilized for small trees where complete coverage can be obtained with less than 100 gal of water/A. Spray volume must be sufficient to provide good coverage of treated area. ▪ Begin applications when conditions favor disease development; prior to cold; and when wet conditions occur in the fall and winter (November through February). Check with your local university cooperative extension service or other local experts for the best preventive timing. ▪ For airblast application: To help reduce off-target drift, direct spray into the canopy, and turn off outward pointing nozzles at row ends and when spraying outer rows.

RESTRICTIONS:

- Do not apply after petal fall.
- Do not apply more than 64 fl oz/A (0.084 lb ai/A) of **KASUMIN 2L** in a single application.
- Do not apply more than 256 fl oz (0.336 lb ai/A) of **KASUMIN 2L** per acre per year.
[In California: Do not apply more than 128 fl oz (0.168 lb ai/A) of **KASUMIN 2L** per acre per year.]
- Do not make more than 4 applications of **KASUMIN 2L** per year with a minimum interval of 7 days between applications.
- [In California: Do not make more than 2 applications of **KASUMIN 2L** per year.]
- Do not apply more than 2 consecutive applications of **KASUMIN 2L** before alternating with another fungicide/bactericide of a different mode of action. If additional bactericide 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 use an alternate tree-row application method.
- Do not apply kasugamycin in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.
- Animal grazing in treated areas is prohibited. The public must be notified by posting restriction signs along the perimeter of the treatment area.
- Do not apply **KASUMIN 2L** by aerial application.
- **KASUMIN 2L** must be applied at the equivalent of 64 fluid ounces per 100 gallons of water per acre when using less than 100 gallons per acre spray volume.
- Do not apply **KASUMIN 2L** through any type of irrigation system, including chemigation.
- Preharvest Interval (PHI) = 30 days.
- Use only the specified and full-strength application rates.

Produced For:**ARYSTA LIFESCIENCE NORTH AMERICA, LLC****15401 Weston Parkway, Suite 150****Cary, NC 27513**

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