



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

71512-38

Date of Issuance:

12/7/18

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Ranman Ornamental and  
Greenhouse Fungicide

Name and Address of Registrant (include ZIP Code):

Michael Peplowski  
Manager, Product Registrations  
ISK Biosciences Corporation  
7470 Auburn, Suite A  
Concord, Ohio 44077

**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) provided that you:

1. 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.

Signature of Approving Official:

Marianne Lewis, Acting Product Manager 22  
Fungicide Branch, Registration Division (7505P)

Date:

12/7/18

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 71512-38.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. 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 CSF:

- Basic CSF dated 11/16/2018

If you have any questions, please contact Craig Reeves by phone at (703) 347-0486, or via email at [reeves.craig@epa.gov](mailto:reeves.craig@epa.gov).

Enclosure: Stamped Label



**RANMAN® ORNAMENTAL  
AND GREENHOUSE FUNGICIDE**

<b>FIRST AID</b>	
<b>If on skin</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of soap and water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
For <b>24-Hour Medical Emergency Assistance</b> (Human or Animal) Call <b>1-888-484-7546</b> .  For <b>Chemical Emergency</b> , Spill, Leak, Fire or Accident, Call <b>CHEMTREC 1-800-424-9300</b> .	

ACTIVE INGREDIENT: Cyazofamid\* ..... 34.5%  
 OTHER INGREDIENTS: ..... 65.5%  
 Total..... 100.0%

\*4-chloro-2-cyano-*N,N*-dimethyl-5-(4-methylphenyl)-1*H*-imidazole-1-sulfonamide (CA)

Contains 3.33 pounds Cyazofamid Per Gallon (400 grams per liter)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

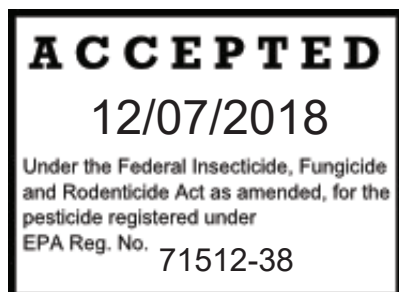
See side panel for additional precautionary statements.  
 [See inside [attached booklet] for First Aid, Precautionary Statements, Directions for Use, Storage and Disposal, and Warranty And Disclaimer.]

Read entire label carefully and use only as directed.

**ISK Biosciences Corporation**  
 7470 Auburn Road, Suite A  
 Concord, Ohio 44077 U.S.A.

EPA Reg. No. 71512-XX    EPA Est. No.

**Net Contents:**



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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of any waterproof material.

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. Do not allow contact of contaminated clothing with unprotected skin. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### ENGINEERING CONTROL STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

#### USER SAFETY RECOMMENDATIONS

Users should:

- \* Wash thoroughly with soap and water after handling and 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. Wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate waters when disposing of equipment wash waters or rinsate.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they must be observed.

#### STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**PESTICIDE STORAGE:** Store in original container, in a secured, dry place separate from fertilizer, food, and feed.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable 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 ¼ 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 if available, or puncture and dispose of in a sanitary landfill, or by incineration.

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#### DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

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 agency responsible for pesticide regulation.

**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 this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of twelve (12) hours.

PPE required for early entry to the 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, is:

- coveralls,
- chemical resistant gloves made of any waterproof material,
- shoes plus socks and protective eyewear.

Commercial greenhouses and nurseries are within the scope of the Worker Protection Standard.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides, 40 CFR Part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Ornamental landscapes are not within the scope of the Worker Protection Standard. Keep children, pets, and unprotected persons out of the treated area until sprays have dried.

**PRODUCT INFORMATION**

Ranman is a flowable suspension concentrate for control of Pythium, Phytophthora and Downy mildew diseases on ornamental plants in landscapes and plants grown in commercial greenhouses and nurseries.

**INTEGRATED PEST MANAGEMENT**

RANMAN is an excellent disease control agent when used according to label directions for control of several Oomycete fungi. Although RANMAN has limited systemic activity, it should be utilized as a protectant fungicide and applied before the disease infects the crop.

Depending upon the level of disease pressure, good protection of the crop against disease can be expected over a period of 7 to 28 days.

RANMAN is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of disease-resistant crop varieties, cultural practices, crop rotation, biological disease control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage. Practices known to reduce disease development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. RANMAN may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based upon environmental factors that favor disease development.

**RESISTANCE MANAGEMENT**

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. RANMAN's mode/target site of action is complex III of fungal respiration: ubiquinone reductase, Qi site, FRAC code 21. A disease management program that includes alternation or tank mixes between RANMAN and other labeled fungicides that have a different mode of action and/or control pathogens not controlled by RANMAN is essential to prevent disease resistant pathogens populations from developing. RANMAN should not be utilized continuously nor tank mixed with fungicides that have shown to have developed fungal resistance to the target disease.

For resistance management, RANMAN contains a Group 21 fungicide. Any fungal population may contain individuals naturally resistant to RANMAN and other Group 21 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

- To delay fungicide resistance, take one or more of the following steps:
- Rotate RANMAN or other Group 21 fungicides within a growing season with different groups that control the same pathogens.

- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide 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.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

Since pathogens differ in their potential to develop resistance to fungicides, follow the directions outlined in the “Directions For Use” section of this label for specific resistance management strategies for each crop. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of RANMAN in programs that seek to minimize the occurrence of disease resistance. RANMAN is not cross-resistant with other classes of fungicides that have different modes of action.

## **PLANT TOLERANCE**

Although Ranman has been evaluated on several plants with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not Ranman can be used safely on ornamental and nursery plants not specified on this label. The professional user should determine if Ranman can be used safely prior to commercial use by testing a small number of the type of plants to be treated at recommended rates for that particular group for phytotoxicity.

## **MIXING AND SPRAYING**

Slowly invert container several times to assure uniform mixture of formulation before adding this product to the spray tank.

Fill the mixing tank with half of the required amount of water. The required amount of Ranman should be added slowly into the spray tank during filling to the required volume. Keep agitator running when filling

spray tank and during spray operations. Do not allow spray mixture to stand overnight or for prolonged periods of time. Prepare only the amount of the spray mixture required for immediate use. Spraying equipment should be thoroughly cleaned immediately after the application is completed.

Apply Ranman in sufficient water to obtain adequate coverage of the foliage. Gallonage to be used will vary with crop and amount of plant growth.

## **TANK MIX COMPATIBILITY**

RANMAN is physically compatible (no nozzle or screen blockage) with many products recommended for control of diseases and insects on ornamental plants. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. RANMAN is generally compatible with other insecticides, fungicides, fertilizers and micronutrient products provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of RANMAN with tank mix partners must be evaluated before use. Conduct a jar test with intended tank-mix pesticides prior to preparation of large volumes. Use the following procedure: 1) Pour the recommended proportions of the products into a suitable container of water, 2) Mix thoroughly and 3) Allow to stand 5 minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that RANMAN should not be used in the tank-mix.

RANMAN may be applied with all types of spray equipment normally used for ground applications. Apply RANMAN in sufficient water to obtain adequate coverage of the foliage. Gallonage to be used will vary with crop and amount of plant growth. Application through sprinkler irrigation systems is not recommended unless specific directions are given for a crop. See application and calibration instruction below.

## **ORNAMENTALS**

### **Container Grown Plants – Soil Application**

For control of damping-off, root and stem rot diseases of ornamentals, including conifers, grown in containers in greenhouses, outdoor nurseries and landscapes, apply RANMAN as a soil drench or soil surface spray. Do not make more than 2 applications of RANMAN per crop cycle for control

of Pythium or Phytophthora soil borne diseases. RANMAN may also be applied via irrigation systems as noted below.

For drench applications to containerized plants, use enough of the specified water solution to wet the root zone with minimal run-through. Do not exceed 5% run-through. In general 1 pint of the solution/sq. ft. is sufficient for ornamentals growing in a container with 4-inch depth of growth media. Containers greater than 4-inch depth generally require from 1½ to 2 pints of the solution/sq. ft.

**Field Grown (Bed) Plants – Soil Application**

For control of damping-off, root and stem rot in field-grown (bed) plants, including forest tree nurseries, with drench applications, use sufficient water solution to allow for penetration into the root zone. For soil surface applications made in outdoor nurseries, irrigate with at least ½ inch of water if rainfall does not occur within 24 hours. For all field grown (bed) plant applications, apply RANMAN only to the root zone area of the plant at the rate of 6 fl. oz. of RANMAN per 100 gallons. Do not exceed 1000 gallons of this mixture per acre per application (1.56 lbs. a.i./A). Do not make more than 2 applications of RANMAN per year to field grown (bed) plants (3.12 lbs. a.i./A/yr.). Applications may also be applied via drip irrigation as noted below.

**For Application to Ornamental Plants:**

Disease	Product Rate per 100 gallons	Directions for Use
Pythium crown and root rots and damping-off	1.5 to 3.0 fl. oz.	Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of Ranman. Within the rate range, use the lower rate and shortest interval and the higher rate at the longest interval when disease conditions are low. When disease is severe use the highest rate at the shortest interval. See the rate chart below for application volumes for container grown plants.
Phytophthora crown and root rots and foliar blights.	3.0 to 6.0 fl. oz.	Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of Ranman. Use the lower rate and longest interval as a disease preventative spray or when disease conditions are low. Use the shortest interval and the highest rate when disease conditions are severe. See the rate chart below for soil applications to container grown plants. For foliar applications, apply sufficient product to wet all foliage to the point of run-off (generally not to exceed 100 gallons per acre).
Downy mildews	2.1 to 3.5 fl. oz.	Apply on a 14 to 21 day schedule (refer to the additional directions given in the Foliar Application paragraphs above). Within the rate range, use the lower rate at the shortest interval and the higher rate at the longest interval when disease conditions are low. When disease conditions are severe use the highest rate and shortest interval. Apply sufficient volume (normally 50 to 100 gallons per acre) to wet all foliage to the point of run-off. If water volumes used are less than 50 gallons per acre, an organosilicone surfactant should be added when the disease infection is severe, or a non-ionic surfactant or a blend of an organosilicone and a non-ionic surfactant should be added when disease infection is moderate or light, according to the manufacturer’s label recommendations.

**Container and Field Grown (Bed) Plants - Foliar Application**

For foliar applications, apply sufficient spray solution to thoroughly wet the foliage to the point of run-off (generally not to exceed 100 gallons per acre). Do not apply more than two consecutive applications of RANMAN during any growing season. RANMAN should then be alternated with another registered fungicide with a different mode of action. Do not make more than 4 applications of RANMAN per crop cycle for control of downy mildews or Phytophthora foliar diseases.

Applications of RANMAN should begin when conditions are favorable for disease development or when plants first exhibit disease symptoms, from germination to mature crop.

**For Container Grown Plants:**

Pot Diameter (Inches)	Maximum Drench Volume (fl. oz. of drench mixture/pot)
4	2
5	3
6	4
8	10
10	20
12	30

**For Applications to Greenhouse Grown Crops**

Crop	Diseases	Use Rate Fl. Oz. Product Per Acre (lb. ai/A)	Directions for Use
<p><b>Greenhouse Grown *Herb Subgroup 19A</b></p>	<p>Downy mildew (<i>Peronospora belbahrii</i>)</p> <p>Phytophthora root rot (<i>Phytophthora spp.</i>)</p>	<p>2.75 to 3.0 (0.071 to 0.078)</p>	<p><b>Resistance Management:</b> Alternate sprays of RANMAN with a fungicide with a different mode of action.</p> <p><b>Application Instructions:</b> For control of downy mildew on herbs, make the applications on a 7- to 10-day schedule beginning when disease conditions are favorable for disease development. Use the lower rate and longest interval as disease preventative sprays or when disease conditions are low. Increase to the highest rate and shortest interval under moderate to heavy disease pressure.</p> <p>For water volumes less than 60 gallons per acre, RANMAN should be tank-mixed with an organosilicone surfactant when the disease infection is severe, or a non-ionic surfactant or a blend of organosilicone and a non-ionic surfactant when disease infection is moderate or light, at the manufacturer's label recommendation. Normal water volumes are 50 to 75 gallons per acre.</p> <p>RANMAN may be applied through sprinkler irrigation equipment. See calibration directions elsewhere on the label.</p> <p><b>Restrictions:</b> DO NOT apply more than 9 applications of RANMAN per crop. DO NOT apply more than 27 fluid ounces (0.7 lb a.i.) per acre per year. The Pre-Harvest Interval (PHI) for this crop is 0 days. DO NOT make more than three consecutive applications of RANMAN. Follow this by at least three applications of fungicides having a different mode of action before applying additional RANMAN.</p>
<p>*Includes all members of the Herb Crop Subgroup 19A: angelica; balm; basil; borage; burnet; camomile; catnip; chervil (dried); chive; Chinese chive; clary; coriander leaf (cilantro or Chinese parsley); costmary; culantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram (includes sweet or annual marjoram, wild marjoram or oregano, and pot marjoram); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; summer and winter savory; sweet bay; tansy; tarragon; thyme; wintergreen; woodruff; and wormwood.</p>			



**For Applications to Greenhouse Grown Crops (continued)**

Crop	Diseases	Use Rate Fl. Oz. Product Per 100 Gallon (lb. ai/100 Gal)	Directions for Use
<b>Greenhouse Grown Tomato Transplants (Soil Drench)</b>	Pythium Damping-off ( <i>Pythium spp.</i> )	3 fl oz/100 gallons water (0.078 lb a.i./ 100 gallons water)	<b>Tomato Greenhouse Transplant Production:</b> For control of damping-off caused by <i>Pythium spp.</i> make a single fungicide application to the seedling tray at the time of planting or at any time thereafter up until 1 week before transplanting. Apply the fungicide solution as a drench to thoroughly wet the growing medium. This results in the use of approximately 1 pint of solution per square foot if the growing medium is 4 inches deep.
<b>Greenhouse Grown Bell Pepper (Soil Drench)</b>	Phytophthora blight, crown and root rot ( <i>Phytophthora capsici</i> ) Pythium Damping-off ( <i>Pythium spp.</i> )	3.2 fl oz/100 gallons water (0.083 lb a.i./ 100 gallons water)	<b>Greenhouse Grown Bell Peppers (Soil Drench):</b> For control of <i>Phytophthora and Pythium spp.</i> in production grown peppers in the greenhouse, apply the first application at transplanting or up to first fruit set, using 5 fl. oz. of the drench solution per plant. Apply the fungicide solution as a drench to thoroughly wet the growing medium. A second drench application may be applied if necessary after 42 days at the rate of 8.5 fl. oz. of the drench solution.
			<p><b>Restrictions</b> The Pre-Harvest Interval (PHI) for these listed crops is 0 day. Do not use any surfactant with these drench applications. Do not exceed 13.5 fl. oz. of the drench solution per plant.</p>

**APPLICATION AND CALIBRATION TECHNIQUES FOR DRIP IRRIGATION**

Apply this product only through pressurized drip (trickle) systems or micro-irrigation systems such as spaghetti-tube or individual tube irrigation, or ebb and flow systems. DO NOT apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

DO NOT apply RANMAN through irrigation systems connected to a public water system. “Public water system” means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year.

Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injection when the irrigation water pump motor stops. A person knowledgeable of

the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quick-closing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low-pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

**Always inject RANMAN into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.**

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

#### **WARRANTY AND LIMITATION OF DAMAGES**

Seller warrants to those persons lawfully acquiring title to this product that at the time of first sale of this product by Seller that this product conformed to its chemical description and was reasonably fit for the purposes stated on the label when used in accordance with Seller's directions under normal conditions of use. To the extent consistent with applicable law, Buyers and users of this product assume the risk of any

Use contrary to such directions. **EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.** In no event shall Seller's liability for any breach of warranty or guaranty exceed the purchase price of the product as to which a claim is made. To the extent consistent with applicable law, Buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in Directions for Use of this product, weather conditions, cultural practices, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural and/or horticultural practices.

**ISK Biosciences Corporation**  
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Ranman<sup>®</sup> is a registered trademark of Ishihara Sangyo Kaisha, Ltd.

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