

Container label

GROUP	52	FUNGICIDE
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KINOPROL® 20 SC

Fungicide

Suspension

AGRICULTURAL-COMMERCIAL

ACTIVE INGREDIENT: Ipflufenquin.....200 g/L

Contains 1,2-Benzisothiazolin-3-one at 0.0193%, 5-Chloro-2-methyl-4-isothiazolin-3-one at 0.00113% and 2-Methyl-4-isothiazolin-3-one at 0.00037% as preservatives.

CAUTION

<skull and crossbones in Triangle>

POISON

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 34756 PEST CONTROL PRODUCTS ACT

IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL, CALL
1-800-424-9300

NET CONTENTS: 100 mL – 1060 L

Registrant:

Nippon Soda Co., Ltd.

JP Tower 10th Floor

7-2 Marunouchi 2-Chome

Chiyoda Ku, Tokyo, 100-7010

Japan

USA Contact Number: (212) 490-0350

Canadian Representative:

Nailor Regulatory Consulting Inc.

935 Rosinke Drive,

Kincardine, Ontario N2Z 2X3

(519) 829-5422

FIRST AID

If swallowed: Call a poison control centre or doctor immediately 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.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes: 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 eye. 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

PRECAUTIONS

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

STORAGE

Store unused product in original container only, out of reach of children and animals.

Store this product away from food or feed.

DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

DISPOSAL OF CONTAINER

For recyclable containers:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

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If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

For refillable containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

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NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label.

Booklet

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TOXICOLOGICAL INFORMATION

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PRECAUTIONS

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

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

DO NOT apply this product through any type of irrigation system.

DO NOT apply using handheld mistblower/airblast or handheld fogging equipment.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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 PRECAUTIONS

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PRODUCT INFORMATION

KINOPROL 20 SC is a 200 g/L suspension concentrate for the control of scab and powdery mildew on Pome Fruit (Crop Group 11-09). Thorough spray coverage is essential for optimal performance. Use adequate spray volume to ensure complete coverage of foliage.

DIRECTIONS FOR USE

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Ground Application: For airblast and hand-held equipment including manually pressurized hand wands, backpack sprayers, and mechanically-pressurized handgun sprayers, apply KINOPROL 20 SC in sufficient water to ensure thorough coverage of foliar, bloom and fruit. Thorough spray coverage is required for optimal disease control. Good spray coverage is a function of spray pressure, spray volume per hectare, nozzle type and spacing and application equipment speed. Calibrate spray equipment prior to use.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when

wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

MIXING INSTRUCTIONS

Recommended Mixing and Application Instructions for KINOPROL 20 SC

KINOPROL 20 SC is a liquid suspension concentrate formulation that readily disperses in water to form a spray mixture, which may be applied by ground.

1. Plan ahead. Prepare only enough spray mixture as can be applied on the day of mixing.
2. Fill tank $\frac{1}{4}$ - $\frac{1}{2}$ full with the required amount of total spray volume of water. Shake the product container well before using. Begin agitation and add product.
3. Continue to fill tank.
4. Allow mixing in tank for 2 minutes after filling or until thoroughly mixed before applying.
5. Maintain continuous agitation during mixing and application to assure uniform suspension.
6. If mixture sits without agitation for extended periods, agitate the mixture for at least 10 minutes before use.
7. Equip spray system with a 50-mesh inline filter, which will protect nozzles that are typically used. Nozzles may also be equipped with 50-mesh nozzle filters or 25 to 50 mesh (equivalent) slotted nozzle filters.
8. KINOPROL 20 SC may be unstable in water pH below 4 and above 9. If necessary, buffer water to obtain optimum pH range.

The use of adjuvants may enhance the fungicide performance of KINOPROL 20 SC under some conditions. See APPLICATION INSTRUCTIONS for specific instructions. Local environmental conditions may affect crop tolerance. Since all possible tank mix combinations have not been examined, test the combination on a small section of the crop to be sprayed to ensure that injury will not occur as a result of application.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Nippon Soda Co., Ltd. at (212) 490-0350 for information before applying any tank mix that is not specifically recommended on this label.

APPLICATION INSTRUCTIONS

Apply a minimum finished spray volume of 187 L water/ha by ground application equipment. For best results, it is important to obtain thorough and uniform spray coverage of the plant.

A non-ionic surfactant (NIS) at 0.125% - 0.5% v/v or the recommended rate may be added to the KINOPROL 20 SC spray solution under conditions conducive to high disease pressure (e.g., Agral 90 at 0.125% v/v).

POME FRUIT (Crop Group 11-09)*

Disease	Rate mL/ha	Use Recommendations	Restrictions
Control of Scab (<i>Venturia inaequalis</i> and <i>V. pyrina</i>) Control or suppression of Powdery Mildew (<i>Podosphaera</i> <i>leucotricha</i> and <i>Phyllactinia mali</i>)	165 - 220	Make first application at green tip stage; BBCH 9 to BBCH 76. The 165 mL/ha rate provides suppression of powdery mildew. If disease pressure is moderate or high or if control is required, use the 220 mL/ha rate. Addition of a surfactant may improve efficacy. Use the higher rate under heavier pest pressure. The retreatment interval is 7 – 10 days.	Do not apply more than once every seven (7) days. Do not apply within 7 days of harvest; (PHI = 7 days). Do not make more than three (3) applications per year. Do not make more than two (2) sequential applications. Do not exceed 660 mL per ha per year.

*Apple (*Malus domestica*), Azarole (*Crataegus azarolus*), Crabapple (*Malus sylvestris*, *Malus prunifolia*), Loquat (*Eriobotrya japonica*), Mayhaw (*Crataegus aestivalis*, *C. opaca*, *C. rufula*), Medlar (*Mespilus germanica*), Pear (*Pyrus communis*), Pear, Asian (*Pyrus pyrifolia*), Quince (*Cydonia oblonga*), Quince, Chinese (*Chaenomeles speciosa*), Quince, Japanese (*Chaenomeles japonica*), Tejocote (*Crataegus mexicana*), Cultivars, varieties and/or hybrids of these

To clean the sprayer after use, drain and flush with water.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, KINOPROL 20 SC contains a Group 52 Fungicide. Any fungal population may contain individuals naturally resistant to KINOPROL 20 SC and other Group 52 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of KINOPROL 20 or other Group 52 fungicide with different groups that control the same pathogens.

- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide 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.
- Do not apply more than the maximum number of applications listed in the label.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Nisso if reduced sensitivity of the pathogen to KINOPROL 20 is suspected. 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 fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance, contact Nisso representatives at (212) 490-0350.

STORAGE

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Store this product away from food or feed.

DISPOSAL

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Kinoprof® is a registered trademark of Nippon Soda Co., Ltd.