

2023-6639  
2023-12-04

{Front of Bag}

**SENATOR® 70WP WSB<sup>1</sup> FUNGICIDE**

GROUP

1

FUNGICIDE

**SYSTEMIC FUNGICIDE**

**AGRICULTURAL**

**WETTABLE POWDER**

**ACTIVE INGREDIENT:**

thiophanate-methyl

70%

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

REGISTRATION NO.: 27297  
PEST CONTROL PRODUCTS ACT

Registrant:  
Nippon Soda Co., Ltd  
JP Tower 10th Floor,  
7-2 Marunouchi 2-chome, Chiyoda-ku  
Tokyo, Japan 100-7010  
USA Contact Number: (212) 490-0350

Canadian Representative:  
Nailor Regulatory Consulting Inc.  
935 Rosinke Drive  
Kincardine, Ontario, N2Z 2X3  
519-829-5422

Net Contents: 1.6 kg  
(8 x 200 g water soluble bags)  
Do Not Sell Water Soluble Bags Separately.

{Back Panel of Bag}

**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.

**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:**

No specific antidote is available. Treat symptomatically.

**PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.** May be harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing of dust or spray mist. Wash thoroughly with soap and water after handling. Wash contaminated clothes before re-use. Do not contaminate food or feed.

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.

DO NOT apply in greenhouses, unless otherwise specified in the crop-specific use directions.

**HANDLING:** The enclosed pouches of Senator 70WP WSB<sup>1</sup> Fungicide are water-soluble. Do not allow the pouches to become wet prior to use. Do not handle the individual pouches with wet hands or wet gloves. Always reseal the overwrap bag to protect the remaining unused pouches.

**STORAGE:**

Store this product away from food or feed.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

***IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL CALL 1-866-336-2983***

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

{Booklet}

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**GENERAL INFORMATION:**

SENATOR 70WP WSB<sup>1</sup> Fungicide is a systemic fungicide for control of certain fungus diseases. It is effective against certain diseases of apples, pears, lowbush blueberries, peaches, nectarines, plums, prunes, cherries, strawberries, raspberries, white beans, sugarbeets, potato seed pieces, ornamentals, turf and greenhouse tobacco seedlings.

**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.

**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.

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**TOXICOLOGICAL INFORMATION:**

No specific antidote is available. Treat symptomatically.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. May be harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing of dust or spray mist. Wash thoroughly with soap and water after handling. Wash contaminated clothes before re-use. Do not contaminate food or feed.

DO NOT apply in greenhouses, unless otherwise specified in the crop-specific use directions.

DO NOT enter or allow worker entry into treated areas to perform post-application activities during the intervals specified in the following table.

Crop	Post-Application Activity	REI and/or PHI
Apples, pears	Harvesting (hand, mechanical)	7 days
	All other activities	12 hours
Lowbush blueberry	Harvesting (hand, mechanical)	60 days
	Hand set/ hand line irrigation related activities involving foliar contact	1 day
	All other activities	12 hours
Cherry, nectarine, peach, plum, prune	Hand thinning fruit	4 days
	Harvesting (hand, mechanical)	1 day
	All other activities	12 hours

Raspberry	Harvesting (hand, mechanical), tying/training (full foliage), hand set/ hand line irrigation related activities involving foliar contact	1 day
	All other activities	12 hours
Strawberry	Harvesting (hand, mechanical)	1 day
	All other activities	12 hours
White bean	Harvesting (hand, mechanical)	21 days
	Scouting, hand set/ hand line irrigation related activities involving foliar contact	2 days
	All other activities	12 hours
Sugarbeet	Harvesting (hand, mechanical)	21 days
	All other activities	12 hours
Outdoor roses and outdoor ornamentals grown for cut flower production	Hand harvesting, hand pruning, disbudding	2 days
	All other activities	12 hours
Outdoor roses and ornamentals not grown for cut flower production	All other activities	12 hours
Greenhouse ornamentals (soil drench)	All activities	12 hours
Greenhouse ornamentals <u>not</u> grown for cut flower production (foliar application)	All activities	12 hours
Aspen, poplar	All activities	12 hours
Greenhouse tobacco seedlings (foliar, drench)	Harvesting (hand, mechanical)	65 days
	Activities with foliar contact	6 days
	Activities with no foliar contact	12 hours
Sod farms	All activities	12 hours
Golf courses	All activities	Until sprays have dried

REI = restricted entry interval; PHI = pre-harvest interval

**HANDLING:** The enclosed pouches of Senator 70WP WSB<sup>1</sup> Fungicide are water-soluble. Do not allow the pouches to become wet prior to use. Do not handle the individual pouches with wet hands or wet gloves. Always reseal the overwrap bag to protect the remaining unused pouches.

After handling Senator 70WP WSB<sup>1</sup> Fungicide, wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. No food, drink or tobacco should be allowed in areas of chemical storage or use. Do not apply this product in a way that will contact workers or other persons. Only protected handlers may be in the area during application.

#### **Personal Protective Equipment (PPE):**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, shoes and socks during mixing, loading, application, clean-up, repair. In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required during application within a closed cab or cockpit.

For potato seed piece treatment, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, shoes and socks when treating, planting and otherwise handling treated potato seed pieces. Use a closed-cab tractor when planting. Gloves are not required within the cab.

If it is necessary for a worker to ride at the back of the planter to monitor planting, then they must also wear chemical-resistant footwear and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. In addition, only 50,000 kg of potato seed pieces can be planted per day. These restrictions are required to minimize exposure to the worker on the back of the planter. Planting may need to be performed over

multiple days, or using different workers in the back of the planter who have not already been exposed that day to SENATOR® 70WP WSB<sup>1</sup> FUNGICIDE by performing another task.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to birds.

Toxic to small wild mammals.

Toxic to earthworms.

Toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)). Follow crop specific directions for application timing.

### **For white bean, cherry, peach, nectarine, plum, prune:**

Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging.

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 filter strip between the treated area and the edge of the water body.

### **STORAGE:**

Store this product away from food or feed.

### **DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

***IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL CALL 1-866-336-2983***

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**[Error! Bookmark not defined.](#):

For resistance management, please note that SENATOR 70WP WSB<sup>1</sup> Fungicide contains a Group 1 fungicide. Any fungal population may contain individuals naturally resistant to SENATOR 70WP WSB<sup>1</sup> Fungicide and other Group 1 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 SENATOR 70WP WSB<sup>1</sup> Fungicide or other Group 1 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an Integrated Pest Management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Nippon Soda Co. Ltd if reduced sensitivity of the pathogen to SENATOR 70WP WSB<sup>1</sup> Fungicide 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 advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information and to report suspected resistance, contact Nisso America at (212) 490-0350.

Since the occurrence of resistance cannot be foreseen, Nippon Soda Co., Ltd. accepts no responsibility for any loss of, or damage to, crops resulting from the failure of SENATOR 70WP WSB<sup>1</sup> Fungicide to control the resistant fungi strains.

## **MIXING:**

### **Using Water-Soluble Packages/Bags Dissolved Directly in Spray tanks:**

Water-Soluble Packages/Bags (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs.

### **Handling Instructions**

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on a minimum of coveralls, chemical-resistant gloves, chemical-resistant footwear, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

### **Mixing Instructions**

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. All other directions for use of all tank mixed products should be followed provided they do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.

10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

NOTE: Do not mix the WSPs with liquid fertilizers, substances that contain boron or substances that release free chlorine. Mixing the WSPs with any of these compounds will result in an insoluble substance in the tank.

#### **RATE:**

Rates for orchard spraying are shown as kg of SENATOR 70WP WSB<sup>1</sup> Fungicide per 1000 litres water for dilute spraying based on a volume of approximately 3500 litres per hectare. For concentrate spraying apply the same quantity per hectare as would be applied by dilute spraying. For potato seed piece treatment, use a minimum of 1.3 L water per water soluble bag (200 g). On turf, use at least 8 litres of water per 100 m<sup>2</sup> of area to be sprayed for dollar spot and use a minimum of 24 litres of water per 100 m<sup>2</sup> of area to be sprayed for brown patch and pink snow. Use the recommended rate and reduce spray intervals under conditions of severe disease pressure.

#### **Compatibility:**

SENATOR 70WP WSB<sup>1</sup> Fungicide is compatible with most pesticides; do not mix with lime or other alkaline materials.

#### **DIRECTIONS FOR USE: AERIAL APPLICATION**

Apply only by fixed-wing or rotary aircraft equipment that has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial applications on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

#### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides*.

#### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot has communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

#### **Product Specific Precautions**



Read and understand the entire label before opening this product. If you have any questions, call the manufacturer at (212) 490-0350 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 50 litres per hectare.

#### DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

**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.

**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.

**Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing - or rotorspan.

#### Spray Buffer zones:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Sugarbeet	1	1	0	0	
	Lowbush blueberry, aspen, poplar, roses, ornamental plants, strawberry, raspberry	2	1	0	0	
	White Bean	4	2	0	0	
	Turf	15	10	1	0	
Airblast	Roses, ornamental plants	Early growth stage	20	15	0	0
		Late growth stage	15	5	0	0
	Lowbush blueberry, aspen,	Early growth stage	25	15	0	0
		Late growth stage	15	10	0	0

	poplar, raspberry					
	Cherry, prune, peach, nectarine, plum	Early growth stage	30	20	0	0
		Late growth stage	20	10	0	0
	Apple, pear	Early growth stage	20	10	0	0
		Late growth stage	10	5	0	0
Aerial	White Bean	Fixed Wing	150	40	0	0
		Rotary Wing	100	35	0	0
	Lowbush Blueberry	Fixed Wing	45	15	0	0
		Rotary Wing	40	15	0	0

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

#### APPLES AND PEARS:

**Apple Scab (*Venturia inaequalis*), Powdery Mildew (*Podosphaera leucotricha*):** Spray with ground application equipment using sufficient volume for thorough coverage. DO NOT APPLY BY AIR.

**Tank Mix with Captan:** Apply at the concentration of 175 grams SENATOR 70WP WSB<sup>1</sup> Fungicide plus 1 kg of Captan 50WP (625 g Captan 80WP) per 1000 litres of water. The rate per hectare is 625 grams of SENATOR 70WP WSB<sup>1</sup> Fungicide + 3.25 kg of Captan 50WP (or 2 kg of Captan 80WP) in a full-season spray program.

Do not apply tank mix with Captan within 7 days of harvest. Do not use Captan with or shortly after oil sprays, or solvent formulations of parathion. Do not exceed a spray volume of 3500 L/ha (2.2 kg product per hectare). Do not exceed 2 applications per year. Observe a minimum re-application interval of 7 days.

#### LOWBUSH BLUEBERRIES:

**Blossom and Twig Blight (*Phomopsis vaccinii*):** Apply 1.1 kg of SENATOR 70WP WSB<sup>1</sup> Fungicide in 1000 litres of water per hectare when using ground application equipment or 50-60 litres of water for aerial applications. Commence applications at bud break. Make 2 applications at 10- to 14-day intervals. Exact interval used depends on weather conditions and disease development. Contact local extension officials.

#### PEACHES, NECTARINES, PLUMS, PRUNES, CHERRIES:

**Brown Rot (*Monolinia fructicola*):** Apply 500 grams of SENATOR 70WP WSB<sup>1</sup> Fungicide per 1000 litres of water (1.75 kg per hectare), using ground application equipment, at very early stages of blossoming, and at full bloom to ensure adequate protection. In British Columbia apply at pink and full bloom stage. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. A second application may be made if wet weather conditions prevail. Do not exceed a spray volume of 3500 L/ha (1.75 kg product per hectare). Do not exceed 2 applications per year. Observe a minimum re-application interval of 7 days. DO NOT APPLY BY AIR.

Experience has shown that alternating contact fungicides and SENATOR 70WP WSB<sup>1</sup> Fungicide for control of brown rot will provide best results with least expectancy of resistance developing to the fungicides.

#### RASPBERRIES:

**Powdery Mildew (*Sphaerotheca macularis*), Fruit Rots (*Botrytis cinerea*):** Apply 500 grams of SENATOR 70WP WSB<sup>1</sup> Fungicide per 1000 litres of water (1.1 kg per hectare), using ground application equipment, during flowering

and repeat every 7 - 10 days as necessary. Do not exceed a spray volume of 2200 L/ha (1.1 kg product per hectare). Do not exceed 2 applications per year. Observe a minimum re-application interval of 7 days. DO NOT APPLY BY AIR.

#### STRAWBERRIES:

**Fruit Rot (*Botrytis cinerea*), Leaf Spot (*Mycosphaerella fragariae*):** Apply 500 grams of SENATOR 70WP WSB<sup>1</sup> Fungicide per 1000 litres of water (1.1 kg per hectare), using ground application equipment, commencing when buds are visible in the crown. Do not exceed a spray volume of 2200 L/ha (1.1 kg product per hectare). A second application may be made if wet weather conditions prevail. Do not exceed 2 applications per year. Observe a minimum re-application interval of 7 days. DO NOT APPLY BY AIR.

#### WHITE BEANS:

**White Mold on White Beans (*Sclerotinia sclerotiorum*):** Apply SENATOR 70WP WSB<sup>1</sup> Fungicide at 1.75 - 2.25 kg per hectare in 1000 litres of water per hectare when using ground application equipment or 50-60 litres of water for aerial applications when conditions favouring development of disease exist (e.g., warm, humid weather combined with heavy, dense crop foliage). This usually occurs during the early stages of bloom prior to the rows closing in. Spray to achieve optimum coverage and penetration on all parts of the plant. If disease conditions persist, repeat applications may be warranted. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Do not exceed 2 applications per year. Observe a minimum re-application interval of 7 days. NOTE: Do not feed or allow livestock to graze on treated crops.

#### SUGARBEETS:

**Leaf Spot (*Cercospora beticola*) of Sugarbeets:** Apply SENATOR 70WP WSB<sup>1</sup> Fungicide at 0.42 – 0.56 kg of product per hectare, using ground application equipment, when disease first appears. Apply in a recommended spray volume of 50-100 L/ha. Repeat 14 – 21 days later if required. Make a maximum of two applications per growing season. DO NOT APPLY BY AIR.

- DO NOT APPLY WITHIN 21 DAYS OF HARVEST.
- FOR SUGARBEETS GROWN FOR EXPORT ONLY.
- NO SUGARBEETS OR PARTS OF SUGARBEETS ARE TO BE USED AS FODDER OR FEED IN CANADA.
- TO DELAY THE SELECTION OF RESISTANT STRAINS OF FUNGI, SENATOR SHOULD ALWAYS BE ALTERNATED WITH A FUNGICIDE OF DIFFERENT CHEMISTRY

#### TURF:

SENATOR 70WP WSB<sup>1</sup> Fungicide can be applied to golf course greens, tees, fairways and sod farms only. DO NOT apply to turf in other residential areas including lawns, gardens, parks, playing fields, cemeteries and schools. For use on all fine turf applications of cool and warm season grasses (such as Bentgrass, Blue grass, Fescues, Rye Grass) or their mixtures. SENATOR 70WP WSB<sup>1</sup> Fungicide is not phytotoxic to any of the above-mentioned grasses when used in accordance with the label. Apply after mowing or avoid mowing for twelve hours after application. Begin applications, using ground application equipment, when diseases first appear. When disease pressure is severe, apply at the higher recommended rate. DO NOT APPLY BY AIR. Do not exceed 20.65 kg ai/ha per year.

Disease	Rate / 100 m <sup>2</sup>	Spray Volume (per 100 m <sup>2</sup> )	Spray Schedule	Maximum seasonal rate per disease
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	25-30 g (1.75-2.10 kg a.i./ha)	Minimum 8 L	Apply when diseases first appear. A second application may be made 10-14 days later if required.	60 g product/100 m <sup>2</sup> (4.20 kg ai/ha)
Brown Patch ( <i>Rhizoctonia solani</i> )	30-60 g (2.10-4.20)	Minimum 24 L	Apply when diseases first appear. If applying at the minimum rate, a	60 g product/100 m <sup>2</sup> (4.20 kg ai/ha)

	kg a.i./ha)		second application may be made if disease pressure persists. Allow a minimum interval of 7 days.	
Pink Snow Mould ( <i>Microdochium nivale</i> )	125-175 g (8.75-12.25 kg a.i./ha)	Minimum 24 L	Apply once per season in the late fall, before snowfall for the control of pink snow mould.	175 g product/100 m <sup>2</sup> (12.25 kg ai/ha)

#### OUTDOOR ROSES AND ORNAMENTAL PLANTS:

**Black Spot of Roses (*Diplocarpon rosae*) and Powdery Mildew (*Podosphaera* spp.):** Apply SENATOR 70WP WSB<sup>1</sup> Fungicide at 500-750 g product per 1000 litres of water, using ground application equipment. Repeat at 10-14 days as required. Do not exceed 750 g product/ha (525 g a.i./ha) in a single application. Do not exceed 2 applications per year. DO NOT APPLY BY AIR.

#### GREENHOUSE ORNAMENTAL PLANTS:

DO NOT apply as a foliar spray to ornamentals grown for cut flowers. DO NOT allow pesticide solution to contact foliage of ornamentals grown for cut flowers.

**Powdery Mildew (*Podosphaera* spp.), Botrytis blight (*Botrytis cinerea*) and Leaf Spots (*Alternaria* spp., *Cercospora* spp.):** Apply SENATOR 70WP WSB<sup>1</sup> Fungicide at 650-750 g per 1000 L of water, using ground application equipment. Do not exceed a spray volume of 1000 L/ha (750 g) in a single application. Water soil thoroughly with spray solution. Repeat after every 15 days if required. Do not exceed 2 applications per year.

**Stem, Crown and Root Rots (*Fusarium* spp. and *Rhizoctonia* spp.):** Apply Senator 70WP WSB<sup>1</sup> Fungicide at 650-850 g per 1000 L of water as a drench or directed spray by ground application to thoroughly soak the growing media through the root zone. A spray volume of 1000-3000 L/ha is recommended. Do not exceed 5100 g product/ha per year. Repeat after 15 days if required. Do not exceed 2 applications per year. Note: Senator does not control *Pythium* or *Phytophthora*.

#### ASPEN AND POPLAR:

**Marssonina Leaf Spot (*Marssonina populi*), Septoria Leaf Spot (*Septoria populicola*):** Apply SENATOR 70WP WSB<sup>1</sup> Fungicide at 1.1 kg product per 1000 litres of water per hectare, using ground application equipment. Repeat every 10 days beginning mid-June. Make a maximum number of 2 applications per season. DO NOT APPLY BY AIR.

#### POTATO SEED PIECE TREATMENT:

Senator 70WP WSB<sup>1</sup> is a systemic fungicide formulated as a sprayable potato seed piece treatment. The product is enclosed in a water soluble bag to promote applicator safety. Do not open or cut-open water soluble bags. The fungicide and the water soluble bag are formulated for use in spray applications only.

The active ingredient in Senator 70WP WSB<sup>1</sup> Fungicide controls *Verticillium* wilt (*Verticillium albo-atrum*), Fusarium rot (*Fusarium* spp.), black scurf and stolon canker (*Rhizoctonia solani*), Silver Scurf (*Helminthosporium solani*), and suppresses seed piece decay (*Rhizoctonia solani*, *Fusarium* spp., *Erwinia carotovora*, *Pythium* spp.) and black leg infections (*Erwinia carotovora*). Use standard potato seed treatment equipment designed to apply sprayable seed treatments.

**RATE:** Use five 200g water soluble bags (1 kg) of Senator 70WP WSB<sup>1</sup> Fungicide per 1,400 kilograms of seed. Mix each 200g pouch in at least 1.3L water (or mix 5 pouches in at least 6.5 L of water). Use a total volume of water carrier that is adequate for complete coverage of seed. Engage agitation and ensure water soluble bags are completely dissolved in the spray tank prior to beginning seed treatment. Maintain constant agitation during treatment.

Apply spray solution using standard equipment with calibrated spray nozzle, mounted over a belt which tumbles the seed pieces. If required, add a drying agent after treatment. Seed pieces which are pre-cut should be treated within 6

hours of cutting. If planting is to be delayed more than 1 to 2 days, the treated pieces should be stored for 2 - 3 days in open crates before bagging.

**NOTE:**

For optimum control of Silver Scurf, ensure that seed tubers are completely free of soil. *Total skin coverage is essential.* Reduced control can be expected in fields where volunteers from the previous year's crop act as a source of infection. Consult your provincial Production Guides for recommendations.

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the 'Seeds Act' must be strictly adhered to when using this product.

**GREENHOUSE TOBACCO SEEDLINGS:**

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Nippon Soda Co., Ltd. under the User Requested Minor Use Label Expansion program. For these uses, Nippon Soda Co., Ltd. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

**DIRECTION FOR USES: For Control of Damping-Off on (*Rhizoctonia solani*) Greenhouse Tobacco Seedlings**

Apply 90 grams of SENATOR 70WP WSB<sup>1</sup> Fungicide in 300 L water to 100 m<sup>2</sup> of seedlings as a drench or directed spray, using ground application equipment, to thoroughly soak the growing media through the root zone. Apply preventatively, when the larger leaves of the seedlings are about 1.5 cm in diameter, or at the first sign of disease. Repeat if necessary 10 - 14 days later. Do not make more than 2 applications per crop.

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

{WATER SOLUBLE BAG LABEL}

**KEEP OUT OF REACH OF CHILDREN  
SEE DIRECTIONS FOR USE ON PRODUCT LABEL  
FOR COMPLETE PRECAUTIONARY STATEMENTS**

**ACTIVE INGREDIENT:  
THIOPHANATE METHYL 70%  
WETTABLE POWDER  
NET CONTENTS: 50 g - 1 kg**

**Do not sell water soluble bags separately**