

2016-0393  
2016-02-22

**RENOVO Fungicide**

GROUP

1

FUNGICIDE

**COMMERCIAL  
Suspension Concentrate**

**GUARANTEE:**

thiophanate-methyl

500 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00113% and 2-methyl-4-isothiazolin-3-one at 0.00037 % as preservatives.

OR

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.001695% and 2-methyl-4-isothiazolin-3-one at 0.000555%, as preservatives.

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

REGISTRATION NO.: 32097 PEST CONTROL PRODUCTS ACT

WARNING – POISON



Warning, contains the allergen soy.

Registrant:  
Nippon Soda Co., Ltd  
Shin-Ohtemachi Bldg., 2-1, 2-Chrome Ohtemachi, Chiyoda-Ku  
Tokyo, Japan, 100-8165  
USA Contact Number: (212) 490-0350

Canadian Representative:  
Brenda W. Nailor Consulting  
12 Burke Court, Guelph, Ontario  
N1L 1J2  
(519) 837-8704

RENOVO is a trademark of Nippon Soda Co., Ltd

Net Contents: 1 L to 50 L

**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. The user assumes the risk to persons or property that arises from any such use of this product.

**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. Do not contaminate domestic or irrigation water supplies, lakes, streams and ponds.

**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***

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**GENERAL INFORMATION:**

RENOVO Fungicide is a systemic fungicide for control of certain fungus diseases of turf.

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**TOXICOLOGICAL INFORMATION:**

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**PRECAUTIONS:**

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Apply only when the potential for drift to areas of human habitation or areas of human activity (such as houses, cottages and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

After handling RENOVO 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 long sleeved shirt and long pants and chemical resistant gloves for mixing, loading, applying, clean-up and repair.

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.

#### **DISPOSAL:**

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#### **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that RENOVO Fungicide contains a Group 1 fungicide. Any fungal population may contain individuals naturally resistant to TPM Turf 500 SC 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 RENOVO 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 RENOVO 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 Nippon Soda Co. Ltd. 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 RENOVO Fungicide to control the resistant fungi strains.

#### **MIXING:**

**SHAKE WELL BEFORE USING.** Some settling may occur during prolonged periods of non-use. When high pH tank mixes exist, the interval between mixing and application should be minimized. The buffering of tank water to pH 6-7 prior to the addition of RENOVO Fungicide is recommended. Add required volume amount of RENOVO Fungicide to partially fill tank (1/2 total volume), agitate by mechanical or hydraulic means, add tank mix product if used (see below), agitate again and then add remaining required amount of water. Continuous agitation is recommended to keep the material in proper suspension. For best results, use spray mixture the same day it is prepared.

Tank mixing instructions: RENOVO is compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials such as fertilizers. No claim of compatibility with other products is implied: Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. Consult the intended tank mix partner product label for appropriate application rates and use instructions. Follow the label directions for the most restrictive of label precautions and limitations. This product may not be mixed with any product containing a label prohibition against such mixing. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. RENOVO may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

**RATE:**

On turf, use at least 8 litres of water per 100 m<sup>2</sup> of area to be sprayed for dollar spot, brown patch, powdery mildew and pink snow. Use the recommended rate and reduce spray intervals under conditions of severe disease pressure.

**Compatibility:**

RENOVO Fungicide is compatible with most pesticides; do not mix with lime or other alkaline materials.

**DIRECTIONS FOR USE**

**TURF:**

RENOVO Fungicide can be applied to golf course greens, tees, fairways and other turf areas. For use on all fine turf applications of cool and warm season grasses (such as Bentgrass, Blue grass, Fescues, Rye Grass) or their mixtures. RENOVO 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.

Disease	Rate of Product (mL/100 m <sup>2</sup> )	Rate of Active Ingredient (kg ai/ha) <sup>a</sup>	Spray Volume (per 100 m <sup>2</sup> )	Spray Schedule	Maximum Seasonal Rate (kg ai/ha)
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	35 – 42	1.75 – 2.10	Minimum 8 L	Repeat after 10 -14 days as required.	4.20
Brown Patch ( <i>Rhizoctonia solani</i> )	42 – 84	2.10 – 4.20	Minimum 8 L	Repeat after 5 - 7 days as required.	8.40
Powdery Mildew ( <i>Erysiphe graminis</i> )	175 – 350	8.75 – 17.5	Minimum 8 L	Repeat after 14 - 21 days as required.	35
Pink Snow Mould ( <i>Fusarium nivale</i> )	175 – 245	8.75 – 12.25	Minimum 8 L	Apply when required.	12.25

<sup>a</sup> Based on 10 000 m<sup>2</sup>/ha, 1 L/1000mL, and the guarantee of 0.500 kg ai/L.