8033-129 4/25/2014 1/21

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

John Reilly
Nippon Soda Co., Ltd.
c/o Nisso America Inc.
88 Pine St., 14th Fl.
New York, NY 10005

APR 25 2014

Subject: Thiophanate-methyl 4.1 SC Fungicide
EPA Reg. No. 8033-129
Notification dated March 18, 2014
Decision Number 489706

Dear Mr. Reilly:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated March 18, 2014. The Registration Division (RD) has conducted a review of this request for applicability under PRN 98-10 and finds that your application falls within the scope of PRN 98-10. The insertion of booklet reference statements on your product label is acceptable and the label will be placed in the file for our records.

If you have any questions, please call Marcel Howard at 703-305-6784 or email at howard.marcel@epa.gov.

Sincerely,

Shaja Joyner
Product Manger (20)
Fungicide Branch
Registration Division (7504P)

Enclosure: Stamped "Notification" product labeling

Please read instructions on reverse before completing form. Form Approved, OMB No. 2070-0060, Approval expires 05-31-98 2/21

EPA United States Environmental Protection Agency Washington, DC 20460

☐ Registration ☐ Amendment ☒ Other: Notification

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
8033-129	S. Joyner	☒ None ☐ Restricted
4. Company/Product (Name)	PM#	
Thiophanate-methyl 4.1 SC Fungicide	Team 20	

5. Name and Address of Applicant *(Include ZIP Code)*
Nippon Soda Co., Ltd.
c/o Nisso America Inc.
88 Pine St., 14th FL.
New York, NY 10005
☐ *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to:

Section - II

☐ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification - Explain below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application
☐ Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

NOTIFICATION of the inclusion of booklet reference statements

Proposed Fee Category: Non-PRIA action, No Fee Required
Proposed Fee: Non-PRIA action, No Fee Required
Contact person email: j.reilly@nissoamerica.com

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR § 152.46 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR § 152.46, this product may be violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section – III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes* ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specifiy)
***Certification must be submitted**	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt. / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
☐ Label ☐ Container		☐ On Label ☐ On labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☐ Paper glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application)*

Name	Title	Telephone No. (Include Area Code)
John Reilly	Registration Specialist	212-490-0317

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature	3. Title	6. Date Application Received (Stamped)
John Reilly	Registration Specialist	
4. Typed Name: John Reilly	5. Date: March 18, 2014	

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NISSO AMERICA INC.
88 Pine St., 14th FL.
New York, NY 10005

Phone: (212) 490-0350 **Fax: (212) 972-9361**

March 18, 2014 3/31

Document Processing Desk [NOTIF]
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Rm S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attn: Ms. Shaja Joyner/ PM Team 20

Re: Notification of Booklet Reference Statements on the Thiophanate-Methyl 4.1 SC Fungicide (EPA Reg. No. 8033-129) Label

Dear Ms. Joyner:

Nippon Soda Co., Ltd., c/o Nisso America Inc., is hereby notifying the US EPA of the addition of booklet reference statements to the Thiophanate-Methyl 4.1 SC Fungicide (EPA Reg. No. 8033-129) label. These reference statements are optional and can be placed on the first page of a container label to direct the user to first aid and precautionary statements within an attached booklet. These statements in no way allow the distributor to print labels without the required first aid and precautionary statements that are on the current approved label.

No other label change is being made at this time.

In order to facilitate this notification, the following documents have been included in this submission:

1. A completed notification form (EPA Form 8570-1);
2. The proposed Thiophanate-Methyl 4.1 SC label (clean and highlighted); and,
3. The current approved Thiophanate-Methyl 4.1 SC label;

Thank you for processing this notification and should you have any questions please contact me at 212-490-0317 or via e-mail at j.reilly@nissoamerica.com.

Sincerely,

John Reilly
Registration Specialist

Label Supplier

Draft Version 3-18-14

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GROUP 1 FUNGICIDE

Thiophanate-Methyl 4.1 SC
Fungicide

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl[1,2-phenylene)-bis(iminocarbonothioyl)]bis[carbamate])*	41.3%
OTHER INGREDIENTS:	58.7%
TOTAL:	100.0%

Contains 4.11 pounds thiophanate-methyl per gallon.
*Also known as dimethyl 4,4'-o-phenylenebis[3-thioallophanate]

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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

If swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Contact the Rocky Mountain Poison Control Center at 1-866-673-6671 for emergency medical treatment information.

EPA Reg. No.8033-129
NET CONTENTS: _____ Gallons

EPA Est. No.
Batch/Lot # _____

Nippon Soda Co., Ltd.
c/o Nisso America Inc.
88 Pine St., 14th FL.
New York, NY 10005

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are nitrile and butyl rubber. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Handlers mixing, loading, and applying the product as a dip (including application of product in Kaolinite clay to conifer seedling roots) must wear:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves,
- Chemical-resistant footwear plus socks,
- Chemical-resistant apron.

All other mixers, loaders, and applicators must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves,
- Chemical-resistant apron for mixers, loaders, and other handlers exposed to the concentrate.

User Safety Requirements
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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS
When handlers use enclosed cabs 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.

USER SAFETY RECOMMENDATIONS
Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
Users should remove clothing/PPE 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.

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ENVIRONMENTAL HAZARDS
Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

DIRECTIONS FOR USE

SHAKE WELL BEFORE USING

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

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.
Do not apply when wind speed favors drift beyond the area intended for treatment.

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).
Exemption: The Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Do not enter or allow workers entry into treated areas during the restricted-entry interval (REI). The REI for each crop is listed in the directions for use associated with that crop.

Exemption: If this product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposures.

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GENERAL INSTRUCTIONS AND INFORMATION

Apply Thiophanate-methyl 4.1 SC with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Continuous agitation is required to keep the material in suspension. Nippon Soda Co., Ltd. does not recommend tank mixes with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rate under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

Use the fl. oz./Acre rate for concentrate sprays (less than 400 gallons on apples, less than 300 gallons on stone fruit). Use the fl. oz./100 gal. rate for dilute ground applications. For aerial applications, use a minimum of 5 gallons/A for row crops, and a minimum of 10 gallons/A for tree crops. For ground applications use a minimum of 20 gallons/A for row crops and 30 gallons/A for tree crops. Higher spray volume will generally result in better coverage and better disease control. Lack of control when using below minimum spray volumes is solely at the risk of the applicator/user, including use of electrostatic sprayers.

Chemigation instructions follow. Do not apply through any irrigation system unless these instructions are followed.

For crops without labeled uses of thiophanate-methyl, observe a 30-day plantback restriction.

Use on all labeled non-bearing tree fruit and tree nuts: Thiophanate-methyl 4.1 SC may be used for control of the diseases listed on the label for these crops during the non-bearing years of new plantings, and on nursery stock. All use directions and limitations must be followed, except for the PHI, which is not applicable. Begin applications as disease is first observed or expected. Tank mixing with a protectant fungicide is strongly recommended for resistance management.

RESISTANCE MANAGEMENT: To avoid the development of tolerant or resistant strains of fungi, Thiophanate-methyl 4.1 SC should always be tank-mixed with a fungicide of different chemistry, and/or a fungicide of different chemistry should be alternated with Thiophanate-methyl 4.1 SC. DO NOT USE PRODUCTS CONTAINING THIABENDAZOLE OR OTHER PRODUCTS CONTAINING THIOPHANATE-METHYL IN COMBINATION, IN ROTATION, OR AS A SUBSTITUTE FOR THIOPHANATE-METHYL 4.1 SC AS THEY ARE OF SIMILAR CHEMISTRY AND WILL CONTRIBUTE TO THE DEVELOPMENT OF RESISTANCE. If after using Thiophanate-methyl 4.1 SC as recommended, and the treatment is not effective, a tolerant or resistant strain of fungi may be present. Discontinue the use of Thiophanate-methyl 4.1 SC for at least one season. As long as these precautions are followed, Thiophanate-methyl 4.1 SC can be useful for disease control, even if resistant strains are present.

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Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
Almonds Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.	Brown Rot Blossom Blight (Monilinia) Scab (Cladosporium) Jacket Rot (Monilinia, Sclerotinia, Botrytis) Leaf Blight (Seimatosporium)	21.8-32.7		Apply as needed between pink bud and petal fall. Thiophanate-methyl 4.1 SC may be applied alone at pink bud for Brown Rot control. For all other applications, Thiophanate-methyl 4.1 SC should be applied with a contact fungicide for broad spectrum control and resistance management. Do not apply more than 65.4 fl. oz. of product (2.1 lbs a.i.)/A/year.
Apples Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days.	Apple Scab (Venturia) Black Pox* (Helminthosporium papulosum) Flyspeck (Zygophiala) Powdery Mildew (Podosphaera) Sooty Blotch (Gloeodes) Black Rot (Botryosphaeria obtusa) Brooks Fruit Spot (Mycosphaerella) **White Rot*** (Botryosphaeria dothidia)	16.3-21.8 (in CA use 32.7)	4.1-5.5	Apply at 5 to 10-day intervals from green tip through petal fall; continue at 7 to 14-day intervals in cover sprays. Do not apply more than 87.2 fl. oz. of product (2.8 lbs a.i.)/A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
	Pre-Harvest use to control Post-Harvest Diseases on Apples			
	Storage Rot Blue Mold (*Penicillium expansum*) Gray Mold (*Botrytis cinerea*) Bulls-Eye Rot (*Neofabraea* spp.)	1.1	4.1-5.5	Apply as a pre-harvest spray within 2 weeks to 3 days of harvest. Thorough coverage of the fruit is required. Application closer to harvest may provide better efficacy. For resistance management, do not use a benzimidazole fungicide post-harvest following Thiophanate-methyl 4.1 SC pre-harvest application. Application of a non-benzimidazole post-harvest fungicide will provide additional protection from post-harvest diseases.

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Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
				Do not apply more than 87.2 fl.oz. of product (2.8 lbs a.i.)/A/year. Pre-harvest interval: 1 day
Beans, dry and succulent Including: Lima bean Snap bean Kidney bean Mung bean Navy bean Pinto bean Wax bean Broad bean Fava bean Asparagus bean Blackeyed pea Cowpea Sweet lupine White lupine White Sweet lupine Grain lupine Chick pea Garbanzo bean Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours for succulent beans and 3 days for dry beans.	White Mold (Sclerotinia) Gray Mold (Botrytis) Anthracnose (Colletotrichum)	32.7-43.6 **OR** 21.8-32.7		For one application: Apply when 100% of plants have at least one open bloom or when conditions are favorable for disease development. **OR** For multiple applications: Make the first application when 10% to 30% of plants have at least one open bloom and follow with sequential applications on a 4 to 7 day interval. Apply prior to the development of disease for best results. Do not apply more than 87.2 of product (2.8 lbs a.i.)/A/year. Pre-harvest interval: **California only,** 14 days for succulent beans, 28 days for dry beans and lima beans. Pre-harvest interval: **all other States,** 14 days for succulent beans and lima beans, 28 days for dry beans.

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Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
Cucurbits: Cantaloupe, Casaba, Cucumbers, Melons, Pumpkins, Summer and Winter Squash, and Watermelons Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	General Information			Do not apply more than 65.4 fl.oz. of product (2.1 lbs a.i.)/A/year from any combination of application timings. Pre-harvest interval: 1 day Thiophanate-methyl 4.1 SC can be used in a tank mix with mancozeb or chlorothalonil for additional disease control and resistance management. Follow resistance management guidelines under Directions for Use.
	Acremonium/ Cephalosporium Hypocotyl Rot	10.9		Apply in-furrow, on top of the seeds at planting. Do not use less than 10 gallons of water per acre.
	Anthracnose* (Colletotrichum) Gummy Stem Blight* (Didymella) Powdery Mildew (Erysiphe, Sphaerotheca) Target Spot* (Corynespora)	10.9		Begin applications when plants begin to run or when disease first appears, and repeat at 7-14 day intervals or as needed. For Target Spot, use at 7-day intervals as needed.
	Belly Rots* (Rhizoctonia, Fusarium)	10.9		Apply in sufficient volume to allow runoff to the soil. Will not control Pythium or Phytophthora.
	Suppression of Vine Decline (Monosporascus) Charcoal Rot (Macrophomina)	10.9		Apply through buried drip irrigation (chemigation) to the root zone. For disease suppression, apply at 14-day intervals, beginning at emergence and continuing to harvest. Applications weekly or biweekly, beginning 4 to 6 weeks prior to harvest will also offer suppression, but may not be as effective as a season-long program.
Garlic (clove treatment)	Penicillium Clove Rot		21.8	Completely immerse garlic cloves in suspension for at least 5 minutes. Continuously agitate the solution tank by hydraulic or mechanical means. After treatment, remove cloves from solution and drain. Dry cloves after treatment and prior to planting.

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Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
Onions* **Garlic** (In furrow) Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.	White Rot (Sclerotium cepivorum)	43.6 broadcast		Spray directly into the open furrow at the time of planting seed, sets or bulbs. Not for this use through any type of irrigation system. Do not apply more than 43.6 fl.oz. of product (1.4 lbs a.i.)/A/year.
Peanuts Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.	Early Leaf Spot (Cercospora) Late Leaf Spot (Cercsoporidium) Rust (Puccinia) Limb Rot (Rhizoctonia) Web Blotch (Ascochyta)	10.9		Begin applications when disease first appears and repeat at 14-day intervals as needed. Do not apply more than 43.6 fl.oz. of product (1.4 lbs a.i.)/A/year. Pre-harvest interval: 14 days Thiophanate-methyl 4.1 SC should not be used alone. Use only in combination *with a non-benzimidazole fungicide such* as chlorothalonil. Follow resistance management guidelines under Directions for Use.
Pecans Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.	Brown Spot (Cercospora) Downy Spot (Mycosphaerella) Liver Spot (Gnomonia) Powdery Mildew (Microsphaera) Scab (Fusicladium) Stem End Blight (Botryosphaeria) Zonate Leaf Spot (Cristulariella)	21.8		Begin applications when first leaves are showing and repeat at 3 to 4 week intervals until shuck split. Do not apply after shuck split. Do not apply more than 65.3 fl.oz. of product (2.1 lbs a.i.)/A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.

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Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
Pistachios Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.	**Shoot Blight** (Botrytis, Botryosphaeria)	32.7-43.6		Apply at bloom. Apply in a minimum of 100 gallons per acre by ground or 20 gallons per acre by air. For aerial application, fly over every row or center. Do not apply more than 43.6 fl.oz. of product (1.4 lbs a.i.)/A/year.
Potatoes Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.	White Mold (Sclerotinia sclerotiorum)	21.8-32.7		Make first application at row closure to full bloom of the primary flower clusters (prior to petal drop). Repeat the application within 7-14 days and at 7-14 day intervals if conditions for disease development are favorable. Thorough coverage of the flowers, stems, and branches is essential for disease control. Use a minimum of 6 gallons/A for aerial application. Apply prior to the development of disease for the best results. Do not apply more than 87.2 fl.oz. of product (2.8 lbs a.i.)/A/year. Pre-harvest interval: 21 days May be tank mixed with mancozeb for Early and Late Blight control.
Soybeans Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.	General Information			Do not apply more than 43.6 fl.oz. of product (1.4 lbs a.i.)/A/year. Pre-harvest interval: 21 days Do not graze or feed treated vines or hay to livestock.
	Anthracnose (Colletotrichum) Brown Spot (Septoria) Frogeye Leaf Spot (Cercospora) Pod and Stem Blight (Diaporthe, Phomopsis)	10.9-21.8		Apply from full bloom to when pods are ⅛" to ¼" in length. Make a second application 14 to 21 days later. Do not make the second application later than 14 days after pods average ¼" in length or when beans form in the pod. Use the high rate under severe disease pressure.
	Purple Seed Stain (Cercospora)	21.8		FOR SEED BEANS ONLY---For seed quality, make a single application when beans form in the pod.

Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
	White Mold (Sclerotinia)	16.3-21.8		Make one application at early bloom (R-1 to R-2 stage) followed by a second application 7-14 days later if conditions are favorable for continued disease pressure. Thorough coverage of the flowers, stems, and branches is essential for disease control. Use a minimum of 5 gallons water/A by air.
	Aerial Blight (suppression)	21.8		Make initial application when disease threatens and repeat 14-21 days later if needed.
Stone Fruit Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.	**General Information**			Do not apply more than 87.2 fl.oz. of product (2.8 lbs a.i.)/A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
Apricots	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	21.8-32.7 (in CA use 32.7)	7.3-10.9	Apply at early bloom (red bud). Make a second application at full bloom. If needed, under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
Cherries Sweet and Sour	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	21.8-32.7 (in CA use 32.7)	7.3-10.9	Apply at early bloom (early popcorn). Make a second application at full bloom. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
	Cherry Leaf Spot (Coccomyces)	21.8-32.7	8.2-10.9	Applications may be made at petal fall or before (when leaves first unfold) and at first, second, and third cover at 10 to 14-day intervals and one spray 14 to 21 days after harvest.
	Powdery Mildew (Podosphaera, Sphaerotheca)	21.8-32.7 (in CAuse 32.7) **PLUS** 21.8-32.7	7.3-10.9 **PLUS** 8.2-10.9	Apply at early bloom (early popcorn). Make a second application at full bloom. **PLUS** Apply at shuck fall and first cover.

Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
Nectarines	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	21.8-32.7 (in CA use 32.7)	7.3-10.9	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
Peaches	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	21.8-32.7 (in CA use 32.7)	7.3-10.9	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
	Peach Scab (Cladosporium)	21.8-32.7 (in CA use 32.7) **PLUS** 24.5-32.7	7.3-10.9 **PLUS** 8.2-10.9	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. **PLUS** Apply at shuck split and at first cover sprays.
Plums and Prunes	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	21.8-32.7 (in CA use 32.7)	7.3-10.9	Apply at early bloom (green tip). Make a second application at full bloom. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
	Black Knot (Dibotryon)	21.8-32.7 (in CA use 32.7)	7.3-10.9	Apply at pre-bloom, petal fall, and at first, second, or third cover sprays at 10 to 14-day intervals.
	Leaf Spot (Coccomyces)	21.4- 32.1 21.8-32.7 (in CA use 32.7)	7.3-10.9	Applications may be made at petal fall, shuck split, and at first, second, and third cover sprays at 10 to 14-day intervals and 1 spray 14 to 21 days after harvest.
Strawberries Do not enter or allow worker entry into treated areas during the restricted entry interval	General Information			Do not apply more than 87.2 fl.oz. of product (2.8 lbs a.i.)/A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
	Crown Rot* (Colletotrichum spp.) Suppression only	16.3-21.8		Begin applications after establishment of the transplants and continue through first bloom at 10 to 14-day intervals. Use the high rate if the fields have a history of

Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
(REI) of 24 hours.				Colletotrichum crown rot and/or conditions are favorable for development of the disease. Will not control Phytophthora species.
	Fruit Rot (Botrytis) Leaf Blight (Dendrophoma) Leaf Scorch (Diplocarpon) **Powdery Mildew** (Sphaerotheca)	16.3-21.8		Begin applications at early bloom and continue at 7 to 10-day intervals. Use the higher rate under conditions of severe disease pressure.
Sugar Beets Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.	General Information			Do not apply more than 65.4 fl. oz. of product (2.1 lbs a.i.)/A/year. Pre-harvest interval: 21 days Follow resistance management guidelines under Directions for Use.
	Cercospora Leaf Spot (Cercospora)	10.9-21.8		Apply when conditions become favorable for disease development before the disease appears and follow with a non-benzimidazole fungicide within 14 days of application or as needed. Thiophanate-methyl 4.1 SC should be tank mixed with a protectant fungicide when resistant strains of Cercospora are present in the field. For areas east of the Rocky Mountians: Do not make more than one application of Thiophanate-methyl 4.1 SC per season for Cercospora Leaf Spot.
	Powdery Mildew (Erysiphe)	10.9-21.8		Apply as soon as disease symptoms appear and follow with a non-benzimidazole fungicide at a 14-day interval or as needed. Thiophanate-methyl 4.1 SC can be tank mixed with sulfur products for additional disease control and resistance management.

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Crop/ Restrictions	Diseases	FL. OZ./ Acre	FL. OZ./ 100 Gal	Remarks/Restrictions
Triticale and Fall-seeded Wheat **For this use in Idaho, Oregon, and Washington ONLY** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.	Foot Rot, Strawbreaker, Eye Spot (Pseudocercosporella)	21.8		Apply Thiophanate-methyl 4.1 SC at the rate indicated in a single application by air or ground after tillering but before stem elongation has begun. Use sufficient water to obtain thorough coverage. Do not apply more than 21.8 fl.oz. of product (0.7 lb a.i.)/A/year. Do not cut for hay within 90 days of application. Do not allow livestock to graze in treated areas before harvest.

* Not for this use in California
NOTE: Dilute sprays are not to exceed maximum rate per acre.

DIRECTIONS FOR USE ON CONIFERS
(Not for this use in California)

CROP	DISEASE		RATE (Lb/A), MINIMUM GALLONAGE	REMARKS
Conifers (Pine) Austrian Red Scots Christmas Trees	Tip Blight (Diplodia)		21.8 fl. oz. per100 gal./A	Apply at bud break. Repeat 10 to 14 days later, just before needles emerge from sheath; repeat again 10 to 14 days after needle emergence. Do not apply more than 65.4 fl. oz. of product (2.1 lbs. a.i.)/A/year.
Conifers (Fir) Douglas	Swiss Needle Cast (Phaecryptopus) Rhabdocline Needle Cast		21.8 fl. oz. per 50 gal./A	Apply initially in early May. Repeat at 4-week intervals. Do not apply more than 109 fl. oz. of product (3.5 lbs. a.i.)/A/year.

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- Add a spreader/sticker to improve coverage. - Use minimum gallonage with mist-blower types of sprayers and higher gallonage with conventional sprayers. - Do not graze livestock in treated areas. - Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.				
Conifers (seedling treatment) Longleaf	Brown Needle Blight (Scirrhia)		1.4 fl. oz. product per 9.5 oz. dry Kaolinite clay for seedling roots	Wet seedling roots in clean water, then apply Thiophanate-methyl 4.1 SC/Kaolinite mixture to wet roots. Do not apply mixture to seedling foliage.
Loblolly Longleaf Slash	Fusarium and Rhizoctonia Root Rot		2.7 fl. oz. product per 50 oz. Kaolinite clay, plus enough water to make a slurry	Thoroughly cover seedling roots with Thiophanate-methyl 4.1 SC/Kaolinite slurry. Do not apply mixture to seedling foliage.
- During treatment avoid excessive drying of roots or exposure to temperatures greater than 90 °F or less than 32 °F. - Thiophanate-methyl 4.1 SC does not control Pythium or Phytophthora. - Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.				

DIRECTIONS FOR USE THROUGH CHEMIGATION SYSTEMS

USE IN CALIFORNIA BY CHEMIGATION ONLY FOR BEANS, CUCURBITS (CANTALOPE, CASABA, CUCUMBERS, MELONS, PUMPKINS, SQUASH, WATERMELONS), PEANUTS, POTATOES, SOYBEANS, STRAWBERRIES, AND SUGAR BEETS.

GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set or hand move; or drip (mini-micro sprinklers, strip tubing, trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

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

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

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect chemigation system (including greenhouse systems) used for pesticide irrigation to any public water system unless the pesticide label-prescribed safety devices for public water systems are in place. Public water system means a system for the provision of piped water for human consumption if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

SYSTEM REQUIREMENTS

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
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 pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

APPLICATION INSTRUCTIONS

Observe the requirements in the System Requirements section above.
Apply Thiophanate-methyl 4.1 SC only through systems containing anti-syphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.
Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.
Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.
Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.
Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.
Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.
Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.
Thiophanate-methyl 4.1 SC may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, is likely to cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

SPRAY PREPARATION:
Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of Thiophanate-methyl 4.1 SC in a mix tank. Fill the tank with ½ or ¾ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of Thiophanate-methyl 4.1 SC and then the remaining volume of water.

Sprinkler Irrigation - Notes
Observe all System Requirements and Application Instructions above.
Set sprinkler system to deliver a maximum of 0.4 inch of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of Thiophanate-methyl 4.1 SC into the irrigation water line so as to deliver the desired rate per acre. The suspension of Thiophanate-methyl 4.1 SC should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. When treatment with Thiophanate-methyl 4.1 SC has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.
Do not apply when wind speed favors drift beyond the area intended for treatment.
Where sprinkler distributed patterns do not overlap sufficiently, unacceptable disease control may result.
Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

Drip (Mini-Micro Sprinklers, Strip Tubing, Trickle) Irrigation - Notes
Observe all System Requirements and Application Instructions above.
A pesticide supply tank is recommended.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store in the original container in a dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal Instructions listed below.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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 HANDLING: Nonrefillable container. Do not reuse or refill this container.

For containers ≤ 5 gallons:

Clean container 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, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For containers > 5 gallons:

Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Nippon Soda Co., Ltd. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent allowable by applicable laws Nippon Soda Co., Ltd. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Nippon Soda Co., Ltd. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent allowable by applicable laws Nippon Soda Co., Ltd. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent allowable by applicable laws the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid, or at Nippon Soda Co., Ltd.'s election, the replacement of product.

***Note to PM**, the following bracketed statements are individually optional depending on the packaging configuration and whether a booklet label design is used:*

a. [See First Aid statement on back panel of booklet.]
b. [See First Aid statement on back panel.]
c. [See additional precautionary statements and Directions for Use in booklet.]
d. [Read the entire label before using this product. See First Aid, Precautionary Statements, and Directions for Use on individual packages.]

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