For control of foliar and soil insects and fungal diseases. For use in vegetables, fruits, tree crops, grapes, agronomic crops, greenhouses, ornamental plants, nurseries, and other listed plants.

Active Ingredient:
Cold Pressed Neem Oil..................70.0%
Other Ingredients.......................30.0%
Total...........................................100.0%

This product contains 5.37lbs of cold pressed neem oil per gallon.

KEEP OUT OF REACH OF CHILDREN
READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

Shake Well Before Use

NET CONTENTS: 1 GALLON

Manufactured for:
Terramera, Inc.
6920 Salashan Pkwy E-100
Ferndale, WA 98248
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions are available, wash with detergent and hot water. Keep and store PPE separately from other laundry.

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

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

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

See label booklet for additional precautionary statements, directions for use, storage and disposal and warranty.
USER SAFETY RECOMMENDATIONS

• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• Remove clothing immediately if contaminated with pesticide. Wash thoroughly and put on clean clothing.
• Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. 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 product application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

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:

• Long-sleeved shirt and long pants
• Shoes plus socks
PRODUCT MODE OF ACTION

Rango™ controls target pests on contact or by ingestion. The modes of action on insects are repellence, anti-feedance and interference with the molting process. Diseases are controlled by inhibition of mycelial growth.

GENERAL INFORMATION

Read all directions before using this product.

Rango™ is an emulsifiable concentrate containing cold pressed neem oil for the broad spectrum control of listed pests in vegetables, fruits, tree crops, grapes, agronomic crops, ornamental plants, greenhouses, and other listed plants. Rango™ is exempted from the requirement of a tolerance and may be applied to listed food and non-food crop up to and including the day of harvest.

- Thorough coverage is key to providing good insect, mite and disease control.
- For best results maintain constant agitation in spray tank and apply immediately.
- For optimal performance do not mix with cold water (less than 45°F).
- Application in early morning/late evening is recommended to minimize the potential for leaf burn.
- Do not apply under high humidity and temperature conditions >90°F.
- Do not apply to wilted or stressed plants and newly germinated or transplanted crops prior to root establishment.
- Use with care on plants with tender tissue. Test on a small area prior to broader use.
- Do not apply to sensitive plant species such as poinsettias, impatiens, hibiscus flowers, certain carnation and rose flower species, ornamental olive trees and comice pear.
- Weather conditions, intensity, type and physical stages of the pests, and treated crop can influence the degree of product efficacy.
- DO NOT apply sulfur or sulfur containing products within 14 days of a Rango™ application.

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. For other uses, including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.
**RATES**

**Insecticide and Miticide Foliar Applications:**

Use a concentration of 0.625 - 1.25% v/v for normal pest and crop conditions. Use a concentration 1.8% v/v for heavier infestations. Up to a maximum use rate of 3 quarts Rango™ per acre.

**Fungicide Foliar Application:**

Use a concentration of 1.25 - 1.8% v/v. Up to a maximum use rate of 6 quarts Rango™ per acre.

**Soil Applications:**

Use a concentration of 1.25 - 2.4% v/v. Up to maximum use rate of 7.25 quarts Rango™ per acre.

**MIXING INSTRUCTIONS**

**Rango™ Alone:**

- **Rango™** is an emulsifiable concentrate and requires only water for the appropriate use dilution.
- Additional surfactant is not required.
- **Shake the container well before use.**
- Add **Rango™** to a clean spray tank half-filled with water and agitate.
- Next, add additional water to final spray volume, while maintaining continuous agitation.
- Best results are achieved by using a spray water with a temperature of 45°F or warmer.
- If water temperature is below 45°F, achieve a good emulsion by premixing **Rango™** at 1:1 ratio with tepid water, add to half-filled spray tank, agitate, then fill to final spray volume.
- Agitate continuously during mixing and application to prevent separation of the emulsion. Inadequate agitation can cause a non-uniform dilution resulting in crop injury and/or reduced efficacy.
- Always use the spray solution promptly after mixing and do not allow mixture to sit for extended periods of time. If allowed to sit, agitate thoroughly before resuming application.
- The recommended pH range of the spray water is between 5.5 – 7 for optimal performance. If needed, adjust by adding a pH modifier.
Neem oil can solidify at temperatures below 60°F. If solidified, thaw the product by setting out in temperatures over 80°F and agitating well before mixing with water. For optimal emulsion, do not use cold water (less than 45°F).

**Mixing Order for Tank Mixes:**

- Fill clean spray tank with water to ½ of the required spray volume.
- Start agitation.
- Add different formulation types in the following order: 1) water dispersible granules, 2) wettable powders.
- Maintain agitation and add water to ¾ of final spray volume.
- Next add Rango™, other emulsifiable concentrates, water-based solutions, adjuvants, surfactants, oils and/or fertilizers.
- Agitate to achieve complete emulsification. Do not use if a uniform, cloudy emulsion is not formed.
- Continue adding water and agitating to desired final spray volume.
- Always use the spray solution promptly after mixing with water.
- Do not let tank mixture sit for an extended period of time. If tank mixture is allowed to sit, agitate thoroughly again prior to and during application. Sparger line agitators are preferred.
- Tank-mix combinations can alter the pH of the finished spray solution. Adjusting the spray mixture pH to a range between 5.5 and 7.0 will provide optimal performance.

**TANK MIX COMPATIBILITY**

To determine the physical compatibility of Rango™ with other products, test as described below before mixing.

**Jar Compatibility Test:** Using a quart jar, add the proportionate amounts of products to be tank mixed to 1 quart of water in the following order. Add wettable powders and water-dispersible granular products first, then add liquid flowables, then add emulsifiable concentrates and solutions last. After thoroughly mixing by agitation, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank. All possible tank mixes on all crops have not been tested. Growers must test tank mix combinations for phytotoxicity on a sample of plants prior to use. Do not use mixtures of incompatible products as it may cause phytotoxicity or result in lowered effectiveness.
Always read and follow the directions for use, precautions and limitations for use on all product labels used in combination. Applications must follow the precautions and limitations of the most restrictive product label in the mixture. Do not exceed the dosage rates of any product. Check compatibility by using the correct proportion of the products in a small test container.

DO NOT apply sulfur or sulfur containing products within 14 days of a Rango™ application.

**APPLICATION DIRECTIONS**

Apply Rango™ as a foliar spray or as soil treatment (soil drench, in-furrow, drip-applied) using thoroughly clean equipment. Applications can be made with any powered or manual pesticide application equipment including high volume, low volume, ultra-low volume, electrostatic, air blast, and fogging equipment. When applied as a foliar application, ensure complete coverage of the plant surfaces, but avoid pooling or run off. Follow the original equipment manufacturer’s instructions.

**INSECTICIDE/MITICIDE FOLIAR USE**

To control listed insect pests, apply Rango™ in sufficient amounts of water with adequate spray pressure to achieve thorough coverage of plant surfaces, ensuring that both the top and bottom of leaves are wetted.

Rango™ is most effective when applied before or around the onset of insects, mites or their eggs (see Pests Section) or as soon as they are detected. Apply at a concentration of 0.625 - 1.8 v/v up to a maximum rate of 3 quarts of Rango™ per acre. Spray early in the morning or in the evening for best results. Repeat application if it rains within four hours of spraying. Avoid spraying under conditions of high humidity and high temperature (>90°F). For optimal results, repeat the applications at intervals of 7 - 10 days.

Use higher rates and increase spray frequency when pest pressure is high and/or dense crop canopies exist.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest</th>
<th>Concentration</th>
<th>Maximum Rate (Rango™/acre)</th>
<th>Spray Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>All crops</td>
<td>See Pests Section – Insects and Mites</td>
<td>0.625 - 1.8% v/v</td>
<td>3 quarts</td>
<td>7 - 10 days</td>
</tr>
</tbody>
</table>
**FUNGICIDE FOLIAR USE**

To control listed diseases, apply Rango™ in sufficient amount of water and with adequate spray pressure to achieve thorough coverage of plant surfaces. Rango™ is most effective when applied before the onset of disease development. Apply a maximum rate of 6 quarts of Rango™ per acre at a concentration of 1.25 – 1.8% v/v. Spray early in the morning or in the evening for best results. Repeat application if it rains within four hours of spraying. Avoid spraying under conditions of high humidity and high temperature (>90°F). Do not apply with any sulfur or sulfur containing products within 14 days of a Rango™ application.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest</th>
<th>Concentration</th>
<th>Maximum Rate (Rango™/acre)</th>
<th>Spray Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>All crops except Grapes</td>
<td>See Pests Section – Diseases</td>
<td>1.25 - 1.8%</td>
<td>6 quarts</td>
<td>10 - 14 days</td>
</tr>
<tr>
<td>Grapes</td>
<td>Powdery Mildew, Stem Mildew, Sour Rot</td>
<td>1.25 - 1.8%</td>
<td>6 quarts</td>
<td>10 - 14 days from pre-bloom through veraison</td>
</tr>
<tr>
<td></td>
<td>Botrytis</td>
<td>1.25 - 1.8%</td>
<td></td>
<td>Spray at bloom, pre-bunch closure, veraison and 14 days after veraison</td>
</tr>
</tbody>
</table>

**NEMATICIDE AND OTHER SOIL USE**

To control listed nematodes, apply as a preventative treatment (see Pests Section for Nematodes) or control treatment after nematodes and other listed pests have been detected. When used as a soil application (soil drench, in-furrow, drip-applied), apply at 1.25 – 2.4% for a maximum rate of 7.25 quarts of Rango™ per acre to deliver complete and thorough coverage. When applied as a soil drench, avoid excess run off. For best results repeat the applications as necessary.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest</th>
<th>Concentration</th>
<th>Maximum Rate (Rango™/acre)</th>
<th>Spray Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>All crops</td>
<td>See Pests Section – Nematodes</td>
<td>1.25 - 2.4%</td>
<td>7.25 quarts</td>
<td>Repeat as needed</td>
</tr>
</tbody>
</table>
Root-dip Nematicide Use on Strawberries

For bare-root dip applications on strawberries use a concentration of 2.4% (e.g. 2.4 gallons of Rango™ in 100 gallons of water). If bare-root nursery plants are in cold storage, allow them to thaw to ambient temperature – approximately 20°C (70°F). Submerge the entire plant to be treated in Rango™ emulsion. Leave the plant completely submerged in for 15 - 30 minutes. Remove the plants from the treatment solution, shake off excess liquid, and drain for 5 -15 min. Plant after treatment, or package the plants in suitable containers and cold store between -2°C and 5 °C (28 - 48 °F) during shipping and until planting.

CHEMIGATION INSTRUCTIONS

GENERAL CHEMIGATION REQUIREMENTS

Apply this product only through in-furrow or drip (trickle) irrigation & system(s). 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 non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. 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.

FURROW CHEMIGATION REQUIREMENTS

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops. 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 back flow.
• 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.
- A supply tank is recommended for this product. If using a supply tank, dilute this product at the rate of 7.25 quarts per 100~200 gallons of water. Frequent agitation is necessary. Apply in the second half of the water application to deliver Rango™ to the soil pests.

**DRIP CHEMIGATION 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 back flow. 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 inter-locking 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.

A supply tank is recommended for this product. If using a supply tank, dilute this product at the rate of 6 quarts per 100~200 gallons of water. Frequent agitation is necessary. Apply in the second half of the water application to deliver Rango™ to the soil pests.
DILUTION TABLE FOR FOLIAR APPLICATIONS
(10 to 100 gallons per acre)

<table>
<thead>
<tr>
<th>Gallons of water</th>
<th>0.625% v/v</th>
<th>1.25% v/v</th>
<th>1.8% v/v</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>16 fl oz</td>
<td>32 fl oz</td>
<td>46 fl oz</td>
</tr>
<tr>
<td>25</td>
<td>20 fl oz</td>
<td>40 fl oz</td>
<td>58 fl oz</td>
</tr>
<tr>
<td>50</td>
<td>40 fl oz</td>
<td>80 fl oz</td>
<td>116 fl oz</td>
</tr>
<tr>
<td>75</td>
<td>60 fl oz</td>
<td>120 fl oz</td>
<td>173 fl oz</td>
</tr>
<tr>
<td>100</td>
<td>80 fl oz</td>
<td>160 fl oz</td>
<td>230 fl oz</td>
</tr>
</tbody>
</table>

PHYTOTOXICITY

To avoid plant damage, test for crop response by applying the spray solution on a small portion of the area to be treated before applying to the entire area.

Make foliar applications in conditions that favor fast drying. Avoid applications during hot temperature conditions >90°F. Make applications early morning/late afternoon to avoid leaf burn. Not all possible mixtures of pesticide sprays, fertilizers, surfactants, and adjuvants have been tested. Therefore, it is the responsibility of the user to test spray mixtures to small areas to ensure crop safety before treating the entire area.

USE SITES

Rango™ is exempted from the requirement of a tolerance and may be applied to the following food and non-food crop groups up to and including the day of harvest.

Crop Group 3 - Bulb Vegetable Crops such as:

<table>
<thead>
<tr>
<th>Garlic</th>
<th>Leek</th>
<th>Onion</th>
<th>Shallot</th>
</tr>
</thead>
</table>

Crop Group 9 - Cucurbit Crops such as:

<table>
<thead>
<tr>
<th>Cantaloupe</th>
<th>Honeydew Melon</th>
<th>Pumpkin</th>
<th>Squash, Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crenshaw Melon</td>
<td>Persian Melon</td>
<td>Squash, Summer</td>
<td>Watermelon</td>
</tr>
</tbody>
</table>
Crop Group 8 - Fruiting Vegetable Crops such as:

<table>
<thead>
<tr>
<th>Eggplant</th>
<th>Pepper</th>
<th>Tomatillo</th>
<th>Tomato</th>
</tr>
</thead>
</table>

Crop Group 4 & 5 - Leafy & Brassica (Cole) Vegetable Crops such as:

<table>
<thead>
<tr>
<th>Arugula</th>
<th>Celery</th>
<th>Greens</th>
<th>Parsley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broccoli</td>
<td>Chinese cabbage</td>
<td>Kale</td>
<td>Radicchio</td>
</tr>
<tr>
<td>Brussel sprout</td>
<td>Cilantro</td>
<td>Kohlrabi</td>
<td>Rhubarb</td>
</tr>
<tr>
<td>Cabbage</td>
<td>Collard</td>
<td>Lettuce</td>
<td>Spinach</td>
</tr>
<tr>
<td>Cauliflower</td>
<td>Endive</td>
<td>Mustard green</td>
<td>Swiss chard</td>
</tr>
</tbody>
</table>

Crop Group 6 – Legume Crops such as:

<table>
<thead>
<tr>
<th>Bean</th>
<th>Guar</th>
<th>Pea</th>
<th>Soybean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chickpea</td>
<td>Lentil</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Crop Group 1 – Root & Tuber Crops such as:

<table>
<thead>
<tr>
<th>Artichoke</th>
<th>Horseradish</th>
<th>Potato</th>
<th>Sweet Potato</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beet</td>
<td>Parsnip</td>
<td>Radish</td>
<td>Yam</td>
</tr>
<tr>
<td>Carrot</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Crop Group 13 – Small Fruit & Berry Crops such as:

<table>
<thead>
<tr>
<th>Blackberry</th>
<th>Cranberry</th>
<th>Kiwifruit</th>
<th>Strawberry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blueberry</td>
<td>Grape</td>
<td>Raspberry</td>
<td></td>
</tr>
</tbody>
</table>

Crop Group 10, 23 & 24 - Citrus & Tropical Fruit Crops such as:

<table>
<thead>
<tr>
<th>Avocado</th>
<th>Fig</th>
<th>Lime</th>
<th>Orange</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banana</td>
<td>Grapefruit</td>
<td>Mandarin</td>
<td>Papaya</td>
</tr>
<tr>
<td>Citrus</td>
<td>Guava</td>
<td>Mango</td>
<td>Pineapple</td>
</tr>
<tr>
<td>Date</td>
<td>Lemon</td>
<td>Olive</td>
<td>Pomegranate</td>
</tr>
</tbody>
</table>
### Crop Group 11 & 12 – Pome & Stone Fruit Crops such as:

<table>
<thead>
<tr>
<th>Apple</th>
<th>Cherry</th>
<th>Pear</th>
<th>Peach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apricot</td>
<td>Nectarine</td>
<td>Plum</td>
<td>Prune</td>
</tr>
</tbody>
</table>

### Crop Group 14 – Tree Nuts Crops such as:

<table>
<thead>
<tr>
<th>Almond</th>
<th>Coconut</th>
<th>Hickory Nut</th>
<th>Pecan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cashew</td>
<td>Filbert</td>
<td>Macadamia Nut</td>
<td>Pistachio</td>
</tr>
<tr>
<td>Chestnut</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Crop Group 19 – Herbs & Spices Crops such as:

<table>
<thead>
<tr>
<th>Basil</th>
<th>Cumin</th>
<th>Mustard</th>
<th>Rosemary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamomile</td>
<td>Curry leaf</td>
<td>Nutmeg</td>
<td>Sage</td>
</tr>
<tr>
<td>Chive</td>
<td>Dill</td>
<td>Pepper</td>
<td>Tarragon</td>
</tr>
<tr>
<td>Cinnamon</td>
<td>Fennel</td>
<td>Peppermint</td>
<td>Wintergreen</td>
</tr>
<tr>
<td>Clove buds</td>
<td>Mint</td>
<td>Poppy</td>
<td></td>
</tr>
</tbody>
</table>

### Crop Group 15 – Cereal Grain Crops such as:

<table>
<thead>
<tr>
<th>Barley</th>
<th>Oats</th>
<th>Sorghum (Milo)</th>
<th>Wheat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>Rye</td>
<td>Triticale</td>
<td>Wild Rice</td>
</tr>
<tr>
<td>Millet</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Crop Group 18 – Forage Crops such as:

<table>
<thead>
<tr>
<th>Alfalfa</th>
<th>Lupin</th>
<th>Trefoil</th>
<th>Vetch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clover</td>
<td>Sainfoin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Crop Group 20 & 21 – Miscellaneous Crops such as:

<table>
<thead>
<tr>
<th>Canola</th>
<th>Hops</th>
<th>Peanut</th>
<th>Sugarcane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coffee</td>
<td>Mushroom</td>
<td>Safflower</td>
<td>Sunflower</td>
</tr>
<tr>
<td>Cotton</td>
<td>Okra</td>
<td>Sesame</td>
<td>Tobacco</td>
</tr>
</tbody>
</table>
Other Use Sites such as:

<table>
<thead>
<tr>
<th>Ornamentals</th>
<th>Greenhouses</th>
<th>Nurseries</th>
<th>Sod Farms</th>
<th>Fencerows</th>
<th>Mushroom Houses</th>
<th>Shade Houses</th>
<th>Turf</th>
</tr>
</thead>
</table>

PESTS: INSECTS, MITES, NEMATODES, AND DISEASES

(1) INSECTS AND MITES: Use the following rate ranges and spray intervals to control the insects and mites listed below.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Maximum Rate (Rango™/acre)</th>
<th>Spray Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.625 - 1.8% v/v</td>
<td>3 quarts</td>
<td>7 - 10 days</td>
</tr>
</tbody>
</table>

Aphids such as:
- Cotton Aphid
- Cowpea Aphid
- Pea Aphid
- Green Peach Aphid

Caterpillars/Moths/Worms such as:
- Armyworms
- Budworms
- Cutworms
- Diamondback Moth
- Gypsy Moth
- Leafrollers
- Loopers
- Navel Orange Worm

Beetles such as:
- Cucumber Beetle
- Japanese Beetle
- Spotted Cucumber Beetle

Flies/Gnats such as:
- Fruit Fly
- Fungus Gnat
- Walnut Husk Fly

Leafhoppers such as:
- Grape Leafhopper
- Potato Leafhopper

Maggots/Grubs such as:
- Onion Maggots

Borers such as:
- Peachtree Borers
- Peach Twig Borers

Grasshoppers such as:
- Carolina Grasshopper
- Rice Grasshopper

Leafminers such as:
- Citrus Leafminer
- Tomato Leafminer
- Vegetable Leafminer

Mealy Bugs such as:
- Citrus Mealy Bug
### Mites such as:
- Pacific Spider Mites
- Red Spider Mite
- Spider Mites
- Two Spotted Spider Mite

### Thrips such as:
- Flower Thrip
- Grape Thrip
- Onion Thrip
- Western Flower Thrip

### Wireworms such as:
- Field/Wheat Wireworm

### Psyllids such as:
- Asian Citrus Psyllid
- Pear Psyllid
- Potato Psyllid

### True Plant Bugs such as:
- Lygus Bug
- Phylloxera
- Spittle Bug
- Sting Bug
- Tomato Stink Bug

### Scales such as:
- California Red Scale
- Coffee Green Scale
- San Jose Scale
- Soft Scale

### Weevils such as:
- Black Vine Weevil
- Boll Weevil
- Pepper Weevil

### Whiteflies such as:
- Cotton Whitefly
- Silverleaf Whitefly
- Greenhouse Whitefly

---

(2) **DISEASES**: Use the following rate ranges and spray intervals to control the diseases listed below.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest</th>
<th>Concentration</th>
<th>Maximum Rate (Rango\textsuperscript{TM}/acre)</th>
<th>Spray Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>All crops except Grapes</td>
<td>See Pests Section – Diseases</td>
<td>1.25 - 1.8%</td>
<td>6 quarts</td>
<td>10 - 14 days</td>
</tr>
<tr>
<td>Grapes</td>
<td>Powdery Mildew, Stem Mildew, Sour Rot</td>
<td>1.25 - 1.8%</td>
<td>6 quarts</td>
<td>10 - 14 days from pre-bloom through veraison</td>
</tr>
<tr>
<td></td>
<td>Botrytis</td>
<td></td>
<td></td>
<td>Spray at bloom, pre-bunch closure, veraison and 14 days after veraison</td>
</tr>
</tbody>
</table>
### Foliar Fungal Diseases

- Alternaria
- Anthracnose
- Blight (early, late, leaf)
- Botrytis
- Downy Mildew
- Molds

### Soil Fungal Diseases

- Powdery Mildew
- Rust
- Scab
- Stem Mildew
- Southern Blight
- Sour Rot Grapes
- Fusarium Oxysporum
- Pythium
- Rhizoctonia Solani

### NEMATODES

Use the following rate ranges and spray intervals to control the nematodes listed below.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Maximum Rate (Rango™/acre)</th>
<th>Spray Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25 - 2.4%</td>
<td>7.25 quarts</td>
<td>Repeat as needed</td>
</tr>
</tbody>
</table>

**Nematodes such as:**

- Dagger Nematode
- Lance Nematode
- Lesion Nematode
- Reniform Nematode
- Root Knot Nematode
- Soybean Cyst Nematode
- Sting Nematode

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by pesticide storage or disposal.

**PESTICIDE STORAGE:** Do not store this product above 104°F or below 20°F for extended periods of time. Keep containers tightly closed and in original containers when not in use. Do not store exposed to ultraviolet light (sunlight) or moisture. Neem oil clouds and solidifies at temperatures below 59°F. If oil has solidified, gently thaw by exposing to temperatures over 80°F. Store in such a manner to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original and out of the reach of children, preferably in a locked storage area. Keep container closed when not in use.
PESTICIDAL DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING:
Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 dispose of in trash or in a sanitary landfill or by incineration.

IMPORTANT: READ BEFORE USE
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 Seller. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Terramera, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a purpose or otherwise, that extend beyond the statements made on this label. No agent of Terramera, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Terramera, Inc. 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 consistent with applicable law, 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 Terramera, Inc.’s election, the replacement of product.

Rango™, Terramera®, the Terramera logo and 2-Leaf design are trademarks of Terramera, Inc.
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions are available, wash with detergent and hot water. Keep and store PPE separately from other laundry.

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

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

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

See label booklet for additional precautionary statements, directions for use, storage and disposal and warranty.