**Circadian Sunrise**

**Horticultural Spray Oil**

**Insecticide • Fungicide • Miticide**

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**ACTIVE INGREDIENTS:**
- Corn Oil .......................................................................................................................... 17%
- Peppermint Oil .................................................................................................................. 10%

**INERT INGREDIENTS:**
- Water, soap (potassium salt of fatty acid), potassium bicarbonate, potassium oleate, gum Arabic, potassium stearate. .......................................................... 73%

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS
Avoid contact with eyes, skin and clothing. May upset stomach if swallowed. Avoid breathing of spray mists or vapors. Avoid contamination of feed and foodstuffs.

**STATEMENT OF PRACTICAL TREATMENT**

If swallowed: Do not induce vomiting. Drink a glass of water and see a physician if experiencing gastrointestinal discomfort.

If on skin: Wash with soap and water.

If in eyes: Flush with water.

If inhaled: Move to fresh air.

**PERSONAL PROTECTIVE EQUIPMENT**

**APPLICATORS AND OTHER HANDLERS MUST WEAR:**
- Protective eyewear
- Chemical resistant gloves
- Long-sleeved shirt
- Shoes plus socks

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water.

**USER SAFETY RECOMMENDATIONS:**

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses only. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

**STORAGE AND DISPOSAL**

1. Prohibitions: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
2. Storage: Store in a cool, dry, locked area out of the reach of children. Keep oil container tightly closed in storage to prevent entry of water.
3. Pesticide Disposal:
   - Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
4. Container Disposal:
   - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or site or at an approved waste disposal facility.

**USE THIS PRODUCT IN A MANNER CONSISTENT WITH ITS LABELING.**

**DIRECTIONS FOR USE:**

**Shake Well Before Each Use**

**USE ON BUT NOT LIMITED TO:**
- Ornamental plants, orchard crops, berries, fruit trees, hops, vegetables, herbs, hemp, medicinal plants, cereals, pseudocereals, conifers, grasses, alfalfa.

**PESTS CONTROLLED:**
- Effective against powdery mildews on a wide variety of crops. Kills russet and spider mites and many insect pests. Prevents other foliar diseases.

**USE PRECAUTIONS:**

Keep the container tightly closed in storage. Do not spray plants under drought stress. Do not apply at temperatures exceeding 85°F. Do not tank mix with any herbicides or within spray tanks in which herbicides have been used. Application safety during the bloom period should be determined for each individual species of plant by conducting a small test. Do not tank mix with any acidic products. Maintain agitation throughout application. Only mix what can be sprayed at one time. Clean spray rig and lines following application.

**MIXING INSTRUCTIONS:**

Circadian Sunrise must be mixed with water prior to application. Fill tank with ½ to ¾ of the total required volume of water. Begin agitation of tank water and slowly add measured volume of Circadian Sunrise. Continue agitating solution while adding remaining water. Agitate for at least five minutes to fully activate ingredients prior to application.

**APPLICATION INSTRUCTIONS:**

Circadian Sunrise is a contact fungicide/insecticide, so direct contact with the target organism is necessary. Use sufficient volume to completely cover all plant surfaces.

**TIMING OF APPLICATIONS:**

Applicator must adjust the precise timing and rate within the labeled range to fit local growth and climatic conditions.

**DO NOT EXCEED MAXIMUM RATES OR APPLY MORE OFTEN THAN RECOMMENDED.**

**MAY BE USED UP TO DAY OF HARVEST**

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**Net Volume:** 1 Gal (3.78 L)

Circadian Crop Science represents this product is exempt from registration with the U.S. Environmental Protection Agency under FIFRA section 25(b) regulations.
# TABLE 1 - Foliar Diseases/Insects/Mites in Fields, Landscapes, Right of Ways, Greenhouses, Nurseries, Growth Chambers and Indoor Grow Rooms, on Food, Herbal, and Ornamental Crops

<table>
<thead>
<tr>
<th>Crops</th>
<th>Pests</th>
<th>Concentrate Per Gal</th>
<th>Gal Per Acre</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Including but not limited to:</td>
<td>Including but not limited to:</td>
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</tr>
<tr>
<td>Grapes</td>
<td>*Powdery Mildew</td>
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<tr>
<td>Caneberryes</td>
<td>*Rusts</td>
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<tr>
<td>Strawberries</td>
<td>Anthracnose</td>
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<tr>
<td>Blueberries</td>
<td>Bacterial leafspot</td>
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<tr>
<td>Hops</td>
<td>Aphids</td>
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<tr>
<td>Hemp</td>
<td>Whiteflies</td>
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<tr>
<td>Herbs</td>
<td>Leafhoppers</td>
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<tr>
<td>Tobacco</td>
<td>Mealybug</td>
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<tr>
<td>Row crops</td>
<td>*Spider mites</td>
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<tr>
<td>Fruit bearing trees</td>
<td>*Russet mites</td>
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<tr>
<td>Ornamentals</td>
<td>Thrips</td>
<td></td>
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<td></td>
<td>* Most effective</td>
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</tbody>
</table>

**Use sufficient volume to ensure uniform coverage**

**Agitate solution throughout application**

**1-day minimum spray intervals** — Permissible only in Indoor/greenhouse/screenhouse environments at a maximum rate of 1 tbsp/gal.

**5 to 7-day minimum spray intervals** — Use when conditions favor pests or diseases at a maximum rate of 4 tbsp/gal.

**7 to 21-day minimum spray intervals** — Use throughout the growing season at a maximum rate of 6 tbsp/gal.

**Note:**
1. It is safe to introduce beneficial insects and mites after sprays have dried.
2. Circadian Sunrise will not harm parasitoids within aphid mummies.
3. It may take up to 24 hours to kill pest.
4. May not control all life stages of all listed pests.
5. Preventing foliar diseases via lower rates and shorter application intervals is recommended.
6. This product should not be mixed with acidic products.
7. Add a wetting agent to increase product performance.

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**Circadian Sunrise Advantages**

1. Derived from renewable ingredients.
3. Much less likely to burn plants than conventional horticultural oils when applied following sulfur applications.
4. This container makes up to 128 gallons of ready to use spray solution.
5. Poses minimal risk to humans and the environment when used as directed.