A BROAD SPECTRUM FUNGICIDE FOR USE IN
AGRICULTURE, FRUITS, NUTS, VEGETABLES,
TURF, ORNAMENTALS, LANDSCAPES,
GREENHOUSES, AND NURSERIES

• EMULSIFIABLE CONCENTRATE
• NO REENTRY INTERVAL
• NO PREHARVEST INTERVAL

Active Ingredients:
Rosemary Oil ............................................................. 16.00%
Clove Oil .................................................................... 10.00%
Thyme Oil .................................................................... 10.00%
Peppermint Oil ........................................................... 2.00%
Other Ingredients* ................................................................ 62.00%
Total .............................................................................. 100.00%
*Butyl lactate, polyglyceryl oleate

KEEP OUT OF REACH OF CHILDREN

WARNING

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:
May cause eye, skin, and respiratory irritation, including
drowsiness or dizziness. Wear protective eyewear and gloves
when mixing or handling concentrate. Wash thoroughly with
soap and water after handling and before eating, drinking,
chewing gum, using tobacco, or using toilet. Take off
contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS: This product poses
minimum risk to fish and aquatic organisms. Avoid direct
contact with water. This product may be toxic to bees so
avoid application when bees are actively foraging.

PHYSICAL OR CHEMICAL HAZARDS: COMBUSTIBLE
LIQUID. Keep away from heat/sparks/open flames/hot surfaces.
No smoking.

FIRST AID

IF IN EYES: Flush with water for at least 15 minutes. Remove
contact lenses, if present, after the first 5 minutes, then continue
rinsing eye. Call a physician if irritation persists.

IF ON SKIN: Wash exposed area with plenty of soap and water.
Remove contaminated clothing. Get medical attention if irritation
or rash occurs.

IF INHALED: Remove person to fresh air and keep at rest in a
position comfortable for breathing.

IF SWALLOWED: Rinse mouth out with water. Seek medical
attention if feeling sick or nauseous.

STORAGE AND DISPOSAL: Do not contaminate water, food or
feed by storage or disposal.

STORAGE: Store in original container in a well ventilated place.
Keep container tightly closed when not in use. Protect from sunlight.
Do not expose to temperatures exceeding 50°C/122°F. Keep from
freezing.

CONTAINER DISPOSAL: Do not reuse empty container.
Rinse empty container then puncture and dispose of container
in sanitary landfill, or incinerator. Rinsed containers may be offered
for recycling.

This product has not been registered by the US Environmental
Agency. KeyPlex represents that this product qualifies for exemption
from registration under the Federal Insecticide, Fungicide and
Rodenticide Act.

NET CONTENTS: gallons/ liters
SPORAN® EC is a broad spectrum, contact fungicide. It controls diseases such as Botrytis Gray Mold (strawberries), Powdery Mildews (grapes, gerbera daisies), Phytophthora Late Blight (tomatoes), etc.

- Disease preventative and curative.
- Prevents fungal attack of plant tissues.
- Prevents and controls black spot on roses, anthracnose, rust and powdery mildew.
- Disrupts the cell wall of spores and hyphae.
- For best results, maintain constant agitation in spray equipment.
- For optimal performance, do not mix with cold water (less than 45° F).
- Do not apply to wilted or otherwise stressed plants, or to newly transplanted materials prior to root establishment.
- Check for leaf and flower burn in small-scale trials before conducting large-scale application of SPORAN® EC.
- When used in conjunction with beneficial insects, it is recommended that a small trial be conducted to ensure compatibility before using on a large scale.

DIRCTIONS FOR USE:

Only protected handlers may be in the application area. Do not apply this product in a way that will contact workers or other persons either directly or through drift.

PLANT SAFETY: The use directions of this product are based on the results of product testing programs on a wide variety of ornamental plants. However, it is impossible to test this product on all species and cultivars. The phytotoxicity of SPORAN® EC has been assessed on a wide variety of common ornamental plants with no phytotoxicity. However, not all plant species and their varieties and cultivars have been tested with SPORAN® EC applied alone or with a possible tank mix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions also can influence plant tolerance and may not match those under which testing has been conducted. Therefore, before using SPORAN® EC, test the product on a sample of the plant and/or seedling. Do not apply on plants when the temperature is 90°F or above.

AERIAL APPLICATIONS

Add SPORAN® EC to one-half (1/2) tank under agitation containing water of 45°F or greater before filling to desired level. When combining with other products, such as adjuvants, insecticides, fungicides, or fertilizers, these products first when the tank is approximately 1/2 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application.

In areas with hard water (water with a total hardness of greater than 200 ppm), it is recommended to completely fill tank with water first and then add a water softener, mix thoroughly, add the appropriate quantity of SPORAN® EC, mix thoroughly. It is critical that the water softener be added to the entire quantity of water and mixed thoroughly before introducing the SPORAN® EC to achieve maximum emulsion.

Application Equipment and Techniques

Spray droplet size should be adjusted to minimize drift and allow application to the intended exposure area only.

Boom Equipment

For best control, using hydraulic or hydraulic air assist equipment, use the recommended rate of this product in sufficient gallons of spray solution per acre as a broadcast spray. Spray should thoroughly wet foliage but not run off.

Hand-held and High Volume Equipment

Spray-to-wet applications of this product may be made with knapsack and backpack sprayers, pump-up pressure sprayers, handguns, hand wands, and other hand-held spray equipment and vehicle mounted high volume spray equipment. For the most efficient use of spray mixture, spray all leaf surfaces uniformly and completely to wetness.

GENERAL INFORMATION

Apply spray solutions in properly maintained and calibrated equipment capable of delivering the desired volumes. Always clean tank, pump and lines thoroughly with water after use.

Mixing

Add SPORAN® EC to one-half (1/2) tank under agitation containing water of 45°F or greater before filling to desired level. When combining with other products, such as adjuvants, insecticides, fungicides, or fertilizers, these products first when the tank is approximately 1/2 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application.

In areas with hard water (water with a total hardness of greater than 200 ppm), it is recommended to completely fill tank with water first and then add a water softener, mix thoroughly, add the appropriate quantity of SPORAN® EC, mix thoroughly. It is critical that the water softener be added to the entire quantity of water and mixed thoroughly before introducing the SPORAN® EC to achieve maximum emulsion.

AERIAL APPLICATIONS

Prior to application, check the aircraft/helicopter spray equipment for uniformity of spray pattern, spray width and output.

Apply a minimum of 15 gallons per acre of diluted product.

Optimum results are obtained when plant foliage is not too dense.

Coverage is essential for good control and flight safety. Applications more than 10 feet above the crop canopy are not recommended.
LIMIT OF WARRANTY AND LIABILITY: KeyPlex warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify KeyPlex of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of KeyPlex including, but not limited to, incompatibility with other products other than those set forth in Directions, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time periods when the product is applied, as well as weather conditions which are outside the applications ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop, or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF KEYPLEX OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTIVE OF KEYPLEX OR SELLER, THE REPLACEMENT OF SUCH QUANTITY OR IF NOTACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL KEYPLEX OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY, which may not be varied by any verbal or written agreement.
### Application Rates

**SPORAN® EC** is an effective fungicide for prevention and control of various fungal diseases. Applications should be made once the disease is observed.

<table>
<thead>
<tr>
<th>Crops Including but not limited to...</th>
<th>Diseases Including but not limited to...</th>
<th>Application Rate in 100 Gallons per Acre for Ground Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legume and Fruiting Vegetables: Beans, Eggplants, Lentils, Peas, Peanuts, Peppers and Tomatoes</td>
<td>Bacterial Spot, Early Blight, Early Leaf Spot, Gray Mold, Late Blight, Powdery Mildew, Bean Rust, Botrytis Neck, Pin Rot, Rust</td>
<td>1.0 - 3.0 pt</td>
</tr>
<tr>
<td>Bulb, Cole and Leafy Vegetables: Broccoli, Cabbage, Cauliflower, Celery, Garlic, Lettuce, Onion and Spinach</td>
<td>Alternaria Leaf Spot, Downy Mildew, Gray Mold, Powdery Mildew, Black Root Rot, Botrytis Neck Rot, Pin Rot, Rust</td>
<td>1.0 - 3.0 pt</td>
</tr>
<tr>
<td>Cucurbits: Cantaloupes, Cucumbers, Melons, Squashes and Watermelons</td>
<td>Alternaria Leaf Spot, Downy Mildew, Powdery Mildew</td>
<td>1.0 - 3.0 pt</td>
</tr>
<tr>
<td>Root and Tuber Vegetables: Potatoes, Radishes, Sweet Potatoes and Turnips</td>
<td>Bacterial Spot, Early Blight, Early Late Blight, Powdery Mildew, Black Root Rot</td>
<td>1.0 - 2.0 pt</td>
</tr>
<tr>
<td>Small Fruits and Berries: Blackberries, Blueberries, Cranberries, Raspberries and Strawberries</td>
<td>Anthracnose Fruit Rot, Downy Mildew, Gray Mold, Powdery Mildew, Sour Rot</td>
<td>1.0 - 3.0 pt Note: Raspberries do not exceed 3 pts per acre</td>
</tr>
<tr>
<td>Grapes and Hops: Grapes (Raisin, Table and Wine)</td>
<td>Powdery Mildew, Downy Mildew, Black Rot, Botrytis Bunch Rot</td>
<td>1.5 - 3.0 pt</td>
</tr>
<tr>
<td>Herbs: Anise, Basil, Dill, Mint, Peppermint, Spearmint, Thyme, and Wintergreen</td>
<td>Powdery mildew</td>
<td>1.0 - 2.0 pt</td>
</tr>
<tr>
<td>Citrus and Sub Tropica: Avocados, Lemons, Grapefruit, Oranges, Papayas, Bananas, Plantains and Mangos</td>
<td>Alternaria Rot, Botrytis Rot, Greasy Spot, Scab, Brown Rot</td>
<td>2.0 - 3.0 pt</td>
</tr>
<tr>
<td>Nuts: Almonds, Cashews, Pecans, Pistachios and Walnuts</td>
<td>Scab, Walnut Blight, Brown Rot Blossom Blight, Anthracnose, Rust</td>
<td>2.0 - 4.0 pt</td>
</tr>
<tr>
<td>Field Crops: Corn, Cotton, Sorghum, Soybeans, Sweet Corn and Tobacco</td>
<td>Bacterial Blight, Leaf Spots, Anthracnose, Rust, Powdery Mildew, Downy Mildew, Seedling Blight</td>
<td>1.0 - 3.0 pt</td>
</tr>
<tr>
<td>Backyard Fruit and Nut Trees</td>
<td>Powdery Mildew</td>
<td>16 - 48 fl oz (Thoroughly wet vegetation.)</td>
</tr>
</tbody>
</table>

For aerial applications use a minimum of 15 gallons of spray volume per acre. Complete coverage of foliage is essential to achieve control. The foliage should be completely WET, but avoid runoff. The use of a spreader and/or penetrant adjuvant improves product performance.
**LIVERWORT AND MOSS CONTROL**

SPORAN® EC may be applied in nurseries, forestry nurseries, greenhouses, and landscape settings (sidewalks, patios, decks, etc.) to control bryophytes (liverworts, mosses, and hornworts). Apply SPORAN® EC at 0.8% to 1.6% (1 to 2 fluid ounces per gallon of water, respectively). In nurseries and greenhouses where bryophytes may occur in potted plants, make a directed spray on the bryophytes wetting heavily. Avoid spraying foliage of potted plant. Some nursery plants, such as conifer seedlings, may tolerate a broadcast application but a test area should be evaluated before making large scale applications.

**TURF AND LAWN DISEASE CONTROL**

SPORAN® EC is an effective fungicide for the prevention and control of various fungal diseases including dollar spot and brown patch.

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>RATE / 5 gal water /1000 sq ft</th>
<th>APPLICATION TIMING / INTERVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusarium Blight (F. roseum), Red Thread</td>
<td>7-10 fl oz</td>
<td>Begin when grass greens up in spring / 7 to 14 days.</td>
</tr>
<tr>
<td>Dollar Spot (Sclerotinia)</td>
<td>10-14 fl oz</td>
<td>Use during favorable disease conditions / 7 days.</td>
</tr>
<tr>
<td>Leaf Spot (Helminthosporium spp.)</td>
<td>5-7 fl oz</td>
<td>Begin when disease appears.</td>
</tr>
<tr>
<td>Rhizoctonia Brown Patch</td>
<td>10-14 fl oz</td>
<td>Use during favorable disease conditions / 3 to 5 days.</td>
</tr>
<tr>
<td>Pythium Blight</td>
<td>14 fl oz</td>
<td>Begin when disease appears / 7 to 14 days.</td>
</tr>
<tr>
<td>Leaf Rust, Stem Rust, Stripe Rust</td>
<td>5-7 fl oz</td>
<td>Begin when disease first appears / 7 to 10 days</td>
</tr>
</tbody>
</table>

**GREENHOUSE, NURSERY AND LANDSCAPE DISEASE CONTROL**

SPORAN® EC is an effective fungicide for the prevention and control of various fungal diseases including anthracnose, rust, scab and black spot on roses.

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>RATE</th>
<th>APPLICATION TIMING / INTERVAL</th>
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</thead>
<tbody>
<tr>
<td>Anthracnose (Colletotrichium spp.)</td>
<td>32-48 fl oz/100 gallon in greenhouses (potted plants, flowering bench crops) and outdoor flowering plants. 64-84 fl oz/100 gallon in outdoor woody plants.</td>
<td>Apply to point of drip before disease is detected or when conditions are favorable for disease development. Continue at 7-14 day intervals until the threat of disease is over. Under heavy pressure, use the highest rate and the shortest interval. Under light disease pressure, the application may be extended.</td>
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<tr>
<td>Black Spot (Diplocarpon rosae)</td>
<td></td>
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<tr>
<td>Botrytis (Botrytis spp.)</td>
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<td></td>
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<tr>
<td>Downy Mildew (Peronospora spp.)</td>
<td></td>
<td></td>
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<tr>
<td>Leaf spot (Septoria spp.)</td>
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<td></td>
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<tr>
<td>Powdery Mildew (Erysiphyspp., Microsphaera spp., Oidium spp., Podosphaera spp., Sphaeratheca spp.)</td>
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<tr>
<td>Rust (Gymnosporangium spp., Phragmidium spp.)</td>
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<tr>
<td>Scab (Cladosporium spp.)</td>
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<tr>
<td>Scab (Venturia inaequalis)</td>
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<td></td>
</tr>
<tr>
<td>Myrothecium (Myrothecium spp.)</td>
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<td></td>
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</tbody>
</table>