

JUL 12 2005

Flo-Tec Inc.  
2151 34<sup>th</sup> Way N.  
Largo, FL 33771

Attention: Olivia Laird, Agent

Subject: DI-OXY SOLV  
EPA Registration No. 72160-2  
Your Amendment Dated April 12, 2005

The amendment, submitted in connection with registration under the FIFRA sec. 3(c)(7)(A) to include additional sites to the product labeling, is acceptable, provided that you:


1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the "accepted" labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Enclosure

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

# Di-Oxy Solv™

2/5

## Broad Spectrum Algaecide / Bactericide / Fungicide

### PREVENTATIVE TREATMENT FOR ORNAMENTAL PLANTS AND CROPS AFTER HARVEST

A treatment for the prevention and control of horticultural diseases in Commercial Greenhouses, Garden Centers and Nurseries. Additionally, a treatment for the prevention and control of plant pathogenic diseases on surfaces, equipment and structures used in processing post harvest commodities.

### FOR HORTICULTURAL, AGRICULTURAL AND COMMERCIAL USE ONLY

#### ACTIVE INGREDIENT:

Hydrogen Peroxide:	27%
Inert Ingredients:	73%
Total:	100%

#### KEEP OUT OF REACH OF CHILDREN DANGER- PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelid open and flush with a steady, gentle stream of water for 15 minutes. Get immediate medical attention.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with plenty of soap and water. Get immediate medical attention

**IF SWALLOWED:** Call a physician or poison control center immediately. Drink large quantities of water. Do not induce vomiting or give anything by mouth to an unconscious person. Avoid alcohol. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

**IF INHALED:** Remove victim to fresh air. Get immediate medical attention.

IN CASE OF EMERGENCY, CONTACT CHEMTREC AT:  
(800) 424-9300

Sold by: Flo-Tec Inc.  
2151 34<sup>th</sup> Way N.  
Largo, FL 33771  
(800) 335-6832

EPA Registration No. 72160-2  
EPA Establishment No.063720-MA-001

#### PERCAUTIONARY STATEMENTS HAZARDS TO HUMAN AND DOMESTIC

ANIMALS, CORROSIVE: Concentrate causes irreversible eye damage. Concentrate may be fatal if swallowed. Concentrate causes skin irritation or temporary discoloration on exposed skin. Do not breathe the vapor of concentrate. Do not get in eyes, on skin or on clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

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When handling concentrate wear protective eyewear (goggles or face shield) and rubber gloves. Applicators and handlers must wear coveralls over long-sleeved shirt, long pants, and chemical resistant footwear plus socks. Follow manufacture's instructions for cleaning / maintaining PPE. If no such instructions exist for washables, use detergent and hot water

#### USER SAFETY RECOMMENDATIONS

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

#### ENVIRONMENTAL HAZARDS

FOR TERRESTRIAL USES. Keep out of lakes, ponds and streams. This pesticide is toxic to birds and fish. Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wash waters.

This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply this product or allow it to drift to crops where beneficials are part of an Integrated Pest Management strategy.

#### PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. Corrosive. Do not use in concentrated form. Mix only with water in accordance with label instructions. Never bring concentrate in contact with other pesticides, cleaners or oxidative agents.

#### DIRECTIONS FOR USE

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.

#### 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 statements on this label about Personal Protective Equipment (PPE) and Restricted-Entry Interval (REI). The requirements in this box only apply to the uses of this product that are covered by the Worker Protection Standard.

**There is a restricted entry of zero (0) hours for this product.**

PPE required for 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, long pants and shoes plus socks.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at her nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or dispose in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. Stay out of smoke.

#### DIRECTIONS FOR USE:

Preventative treatment for suppressing fungal diseases including Treats/ Controls/ Prevents: Algae - Alternaria - Anthracnose -

*Aphanomyces* – Black Spot – *Boytrytis* (grey mold) – Downy Mildew – *Erwinia Fusarium* (root rot) – Leaf Spot – *Phytophthora* (blights, rots) – *Plasmopara* – Powdery Mildew – *Pseudomonas* – *Pythium* – *Rhizoctonia* – Rust – Scab – Smut – *Thielaviopsis* – *Uncinula* (powdery mildew) – *Xanthomonas* – Wilts and Blights.

May be used as a fungicide on bedding plants, flowering plants, roses, poinsettia, orientals, nursery stock, trees, turf, cut flowers, bulbs, cuttings, seedlings, seeds and seedbeds.

May be used as a fungicide and algacide on greenhouse structures, benches, pots, watering systems, evaporative coolers, storage rooms, ventilation equipment, floors and other equipment.

Di-Oxy Solv works by surface contact with the plants and materials being treated. It is important to ensure that all surfaces are thoroughly wetted. Di-Oxy Solv does not produce any visible residue, distinct odor or deleterious effects to plants when used in accordance with label directions.

**COMPATIBILITY:**

Do not use at higher than recommended dilution rates as leaf burn may result. Di-Oxy Solv has been designed to provide a balanced source of the active ingredient directly to the plant surface and has been shown to not cause adverse cosmetic effects on most plants. Since we have not tested all plant species, however, it is always advisable to test Di-Oxy Solv on a few plants before treating large numbers.

**SOLUTION PREPARATION:**

Di-Oxy Solv works best when diluted with water containing low levels of organic or inorganic materials and having a neutral pH. Thoroughly rinse out mixing tank with water before mixing concentrate. Di-Oxy Solv will readily mix with clean, neutral water and does not require agitation.

Di-Oxy Solv concentrate should not be combined or mixed with any other pesticide or fertilizer.

Di-Oxy Solv is formulated with minimal surfactant for plants having waxy or hairy surfaces. Additional surfactant may be added, if needed for treatment of plants with difficult to reach surfaces.

Di-Oxy Solv is a strong oxidizing agent and may react with residues of metal-based fungicides or supplements. Care should be used when applying Di-Oxy Solv as a foliar spray immediately following foliar applications of metal-based products.

**USE RATES AND DIRECTIONS:  
FOR SURFACES AND EQUIPMENT:**

Di-Oxy Solv can be used to suppress/control fungi and slime forming algae on surfaces and structures, such as: glazing, plastic, benches, walkways, floors, walls, fan blades, ventilation ducts, watering systems, vats, tanks, coolers, storage rooms, spray equipment, conveyors, irrigation systems, process equipment, etc.

1. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.

2. Use a dilution of 1:100 - 1:300 or 1 1/4 fl. oz. - 1/2 fl. oz. per gallon of clean water. Use a dilution of 1:50 or 2 1/2 fl. oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Additional surfactant may be added, if needed.
3. Apply solution with mop, sponge, power sprayer or fogger to thoroughly wet all surfaces.
4. Follow treatment of any food contact surfaces, equipment or structures with a potable water rinse.
5. Heavy growths of algae and fungi may have to be scrubbed off following application. Use a solution of Di-Oxy Solv to wash away dead growth.
6. Reapply as often as need to control.

**For clean, non-porous surfaces:**

Pots, Flats, Trays: Use a dilution of 1:300 or 1/2 fl. oz. per gallon of clean water. Spray until runoff. Additional surfactant may be added, if needed.

Cutting Tools: Use a dilution of 1:300 or 1/2 fl. oz. per gallon of clean water. Soak tools to ensure complete coverage. Additional surfactant may be added, if needed.

Benches and Work Area: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:300 or 1/2 fl. oz. per gallon of clean water. Use a dilution of 1:50 or 2 1/2 fl. oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Additional surfactant may be added, if needed.

For evaporative coolers: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution. Treat cooler water every week with a dilution of 1:500 or 1/4 fl. oz. for every gallon of cooler water.

For irrigation systems (flooded floors, flooded benches, recycled water systems, capillary mats, humidification and misting systems): Treat already contaminated water with a dilution of 1:500 or 1/4 fl. oz for every gallon of water. Treat clean water with a dilution of 1:10,000 or one gallon of Di-Oxy solv per 10,000 gallons of water.

For mist propagation of cuttings and plugs: Inject Di-Oxy Solv into misting systems to control/suppress algae, fungi and bacteria disease from becoming established on plant material. Inject Di-

Oxy Solv using a 1:1000 dilution rate, for four to ten days on a consecutive basis. Reduce concentration to 1: 5000 and continuous application throughout propagation cycle. At the first sign of disease, increase the concentration of Di-Oxy Solv to 1:1000.

As a pre-plant dip treatment: Use Di-Oxy Solv for the control / suppression of damp-off, root and stem rot diseases such as *Pythium*, *Phytophthora*, *Rhizoctonia*, *Fusarium* or *Thielaviopsis* on oriental and nursery plants, seed beds, seeds seedlings, bulbs or cuttings.

- 1) Use 64 fl. oz. per 50 gallons of water, a dilution of 1:100.
- 2) Immerse plants or cuttings. Remove and allow to drain. Do not rinse.

As a soil or media drench: Di-Oxy Solv is effective for the control/suppression of soil borne plant soil diseases at the time of seeding or transplanting, as well as a periodic drench throughout the plant's life. Di-Oxy Solv can also be used on potting soil and growing mediums prior to planting.

- 1) Use a dilution of 1:100 or 1/4 fl. oz. per gallon of clean water.
- 2) Apply to soil or growing media to the point of saturation.
- 3) Wait fifteen minutes before planting or watering.

As a foliar spray treatment in greenhouses: Di-Oxy Solv works immediately on contact with any plant surfaces for control/suppression of fungi. Apply Di-Oxy Solv to orientals, bedding plants, flowering plants, shrubs, and trees. To ensure that this contact fungicide is effective, thorough coverage and wetting of the foliage is necessary.

**Initial (Curative) Application:**

- 1) Use a dilution of 1:100 or 1 1/4 fl. oz. per gallon of clean water. Do not reuse already mixed solution, make fresh daily.
- 2) Spray, mist or fog plants in the early morning or late evening.
- 3) Thoroughly wet all surfaces of plant, upper and lower foliage, including stems, branches and stalks to ensure full contact with plant and flower tissue.
- 4) Apply for one to three consecutive days and then follow directions for preventive treatment after the initial application.

**Weekly Preventative Treatment:**

- 1) Use a dilution of 1:300 or 1/2 fl. oz per gallon of clean water.
- 2) Spray, mist or fog plants.
- 3) Thoroughly wet all surfaces of plant, upper and lower foliage, including stems, branches and stalks.
- 4) Spray every five to seven days as a preventative treatment.
- 5) At the first sign of disease, spray daily with a dilution of 1/4 fl. oz. per gallon of water for

ACCEPTED  
W/ COMMENTS  
IN EPA FORM DATED  
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three consecutive days and then resume weekly preventative treatment.

As a foliar spray treatment in the field: Di-Oxy Solv works immediately on contact with any plant surface for control / suppression of disease. Apply Di-Oxy Solv to nursery stock such as: woody orientals, bedding plants, flowering plants, roses, container plants, azaleas, rhododendrons, conifers, and shade trees. Good coverage and wetting of foliage is necessary.

**Initial (Curative) Application:**

- 1) Use a dilution of 1:100 or 1/4 fl. oz. per gallon of clean water. Do not reuse already mixed solution, make fresh daily.
- 2) Spray, mist or fog plants and trees, including applications through irrigation or chemigation systems.
- 3) Thoroughly wet all surfaces of plant, upper and lower foliage, including stems, branches and stalks to ensure full contact with plant and flower tissue.
- 4) Apply for one to three consecutive days and then follow directions for preventative treatment after the initial application.

**Weekly Preventative Treatment:**

- 1) Use a dilution of 1:300 or 1/2 fl. oz. per gallon of clean water.
- 2) Spray, mist or fog plants and trees, including applications through irrigation or chemigation systems.
- 3) Thoroughly wet all surfaces of plant, upper and lower foliage, including stems, branches and stalks.
- 4) Spray every five to seven days as a preventative treatment.
- 5) At the first sign of disease spray daily with a dilution of 1:100 or 1/4 fl. oz. per gallon of water for three consecutive days and then resume weekly preventative treatment.

For cut flowers: Use Di-Oxy Solv to prevent fungal diseases such as *Botrytis*, Downy Mildew and Powdery Mildew on flowers in cold storage or in transit. Apply as a post harvest treatment. Use a dilution of 1:500 or 1/4 fl. oz. per gallon of clean water. Spray flowers after grading and prior to storage or shipment. Repeat weekly for flowers in storage.

For bare root nursery stock: Use Di-Oxy Solv to prevent *Botrytis* on budwood and nursery stock in storage. Use a dilution of 1:100 or 1/4 fl. oz. per gallon of water. Dip plants or spray until dripping wet. Repeat weekly if necessary.

For seed bed treatment: Prior to sowing seed, use dilution of 1:50 or 2 1/2 fl. oz. per gallon of clean water. Thoroughly wet or drench the seedbed, to the point of saturation, with 60 to 100 gallons of dilute solution per 1000 square feet. Let sit for one hour then immediately seed soil.

After seeds have germinated, use dilution of 1:100 or 1/4 fl. oz. per gallon of clean water. Lightly spray or irrigate the soil and seedlings until thoroughly wetted. Repeat once a week until seed is well established.

For soil treatment pre-inoculation with beneficial organisms: Use Di-Oxy Solv to reduce the number of potential plant pathogenic organisms in the soil that will prevent beneficials from becoming established. Use a dilution of 1:50 or 2 1/2 fl. oz per gallon of clean water. Thoroughly wet or drench the area to be inoculated. Wait one day before inoculating soil.

For direct injection into spray waters used on process lines: Treat water containing plant pathogens by injecting Di-Oxy Solv directly into spray system water with 12.8 fl. oz. of Di-Oxy Solv for every 100 gallons of water or use a dilution rate of 1:1,000. Applicable for use on all types of postharvest commodities.

For postharvest spray treatment on process and packing lines: Inject Di-Oxy Solv directly into spray system water on process and packing lines to control bacterial and fungal diseases on postharvest fruits and vegetables. Inject at 1:100 - 1:1,000 DiOxy Solv to clean water. For best results, where dump tanks are used, perform postharvest spray treatment as fruit is leaving dump tanks. Applicable for use on all types of postharvest commodities.

For postharvest spray treatment: Use Di-Oxy Solv to prevent bacterial and fungal diseases on postharvest fruits and vegetables. Mix 1 1/4 - 1/2 fl. oz. of Di-Oxy Solv per gallon of clean water. Spray fruit or vegetables to runoff using hydraulic, backpack, air-assisted or other similar sprayer or foamer.

For direct injection into dump tanks, hydro cooler and process waters: For treatment of water containing plant pathogens, inject Di-Oxy Solv and maintain a predetermined residual level by using metering equipment, coupled with ORP measuring probes.

1. Determine biological loading prior to treatment if possible.
2. For waters that contain low levels of biological and organic loading, inject Di-Oxy Solv at 2 1/2 fl. oz. - 1 1/4 fl. oz. of Di-Oxy Solv for every 100 gallons of water or at a dilution rate of 1:5,000 - 1:10,000.
3. For clean water inject Di-Oxy Solv at 1 1/4 fl. oz. - 5/8 fl. oz. of Di-Oxy Solv for every 100 gallons of water or at a dilution rate of 1:10,000 - 1:20,000 to prevent the formation of algae, bacteria and fungi.

Treatment for nonpotable water systems (wash tanks, dip tanks, drench tanks, evaporators, humidification systems and / or storage tanks): Treat water containing plant pathogens with 1 1/2 fl. oz. of Di-Oxy Solv for every 10 gallons of water or use a dilution rate of 1:2,000.

**CHEMIGATION DIRECTION FOR USE:**

**General Requirements**

- 1) Apply this product only through a sprinkler including a center pivot, lateral move, end tow, side wheel traveler, solid set, hand move, flood basin or drip trickle irrigation system, or through misting systems.
- 2) Crop injury or lack of effectiveness will result from non-uniform distribution of treated water.
- 3) Ensure that the irrigation system used is properly calibrated and if you have questions, call the state extension service or the equipment manufacture.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless proper safety devices for public safety are in place. Read label for instructions.
- 5) 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 any necessary adjustments should the need arise.

**Specific Requirements:**

- 1) Public water supply means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of 25 individuals daily at least 60 days throughout the year.
- 2) Chemigation systems connected to the public water system must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply 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 of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3) The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of liquid back toward the injector
- 4) The pesticide injection pipeline must 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

ACCEPTED WITH COMMENTS in EPA Letter Dated:

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drawn from the supply tank when the irrigation system is either automatically or manually shut down.

- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump, or equivalent, effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.
- 7) Do not apply when wind speeds favors drift beyond the area intended for treatment.

Application Instructions:

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.
- 3) Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. The product will immediately go into suspension without any required agitation.
- 4) Di-Oxy Solv should not be applied in conjunction with any other pesticides or fertilizers: this may cause reduced performance of the product and should be avoided.

Warranty

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing, method of application, weather, watering practices, nature of soil, potting medium, disease problem, condition of crop, incompatibility with other chemicals, pre-existing conditions and other conditions influencing the use of this product are beyond the control of the seller. Buyer assumes all risks associated with the use, storage, or handling of this material not in strict accordance with directions given herewith. No other expressed or implied warranty of fitness or merchantability is made.

This container size:

- 2.5 gallon       5 gallon
- 29 gallon       53 gallon

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