81899-4 12/15/2006 1/12

~~UNITED STATES ENVIRONMENTAL PROTECTION AGENCY~~

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511C)
1200 Pennsylvania Avenue NW
Washington, DC 20460

EPA Reg. Number:	Date of Issuance:
81899-4	DEC 15 2006

Term of Issuance: Unconditional

NOTICE OF PESTICIDE:

___X___ Registration ____ Re-registration
(under FIFRA, as amended)

Name of Pesticide Product:
SoluNeem

Name and Address of Registrant (include ZIP Code):

SoluNeem, Inc
1050 Bridgeway
Sausalito, CA

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c) (5) provided you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the following label change before you release the product for shipment: Revise the EPA Registration Number to read, "EPA Reg. No **81899-4**

3. Submit three (3) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 label is enclosed for your records.

Signature of Approving Official:

Janet L. Andersen

Janet L. Andersen, Ph.D., Director
Biopesticides and Pollution
Prevention Division

Date:
DEC 15 2006

CONCURRENCES								
SYMBOL			7511P	7510				
SURNAME	EPA Form 8570-6		R. Wilkins	Bromilow				
DATE			12/07/06	12/7/06				

EPA Form 1320-1A (1/90) *Printed on Recycled Paper* OFFICIAL FILE COPY

2/12

Master Label

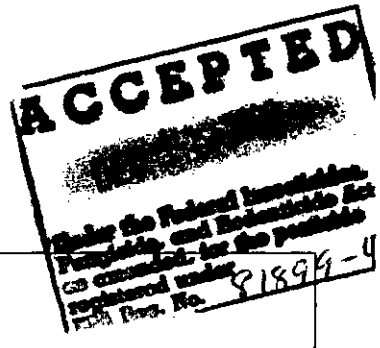
This master label bears direction for both a) agricultural/commercial and b) residential use with specific application rates associated with the package size and area to be treated.

SoluNeem

This product is a non-oiled based, water soluble powder Bio-insecticide from the botanical plant Neem "*Azadirachta Indica*"

For use on turf grass, outdoor shrubs, trees and ornamentals
For ornamental greenhouse, shade house, interiors cape and nursery use
For mushroom house use
For use on outdoor food crops
For control, growth control, antifeedant and repelling Insects such as aphids, armyworms, beetles, budworms, cutworms, fungus gnats, leafhoppers, leafminers, leafrollers, lepidopterous larvae, loopers, mushroom flies, sawflies, thrips, webworms, whiteflies and other pests as listed; and plant parasitic nematodes such as dagger, golden, and root knot nematodes in vegetables, fruits, nuts, coconuts, agronomic crops and ornamental plants. For residential and commercial lawn, flowers and vegetable gardens, farms, forests, sod farms, nurseries, greenhouse-food and ornamental plants, mushrooms, nursery plants, interiorscapes, landscapes, turfgrasses and golf courses.
Use as a spray, drench, or chemigation.

ACTIVE INGREDIENT: Azadirachtin 6.0%
OTHER INGREDIENTS: 94.0%
100.0%



KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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

If in Eyes:
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, phone 24 hours a day, National Pesticide Telecommunication Network at 1-800-858-7378.

SoluNeem Inc.
1050 Bridgeway
Sausalito, CA 94965

EPA Registration Number: 81899-
EPA Establishment.No. :

Net Contents. 1 lb

See Side/Back Panel For Additional Precautionary Statements

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical resistant gloves

Follow manufacturer's instructions for cleaning /maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users Should: Wash hands 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.

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. Do not contaminate water when disposing of equipment wash water or rinsate.

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 through any irrigation system unless the chemigation instructions on this label are followed. 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 the statements on this label about personal protective equipment 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
- Socks and shoes
- Chemical resistant gloves

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within 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.

PRODUCT DESCRIPTION

SoluNeem is a pale yellow/white, amorphous powder containing 6% by weight azadirachtin. It will instantly dissolve in water to give a solution that is ready for spray applications for pest control. Contains no harmful surfactants or solvents. Non-Oil based and highly effective as a powder.
Use Soluneem for pre-harvest treatment of fruits and vegetables in case of sudden pest infestations. SoluNeem is effective on a very wide spectrum of insects and pests as listed on this label.

Use SoluNeem on a wide variety of plants as listed indoors and outdoors. If plans are made to use SoluNeem on plants not listed on this label, it is recommended that a small area such as a leaf, stem, or branch be "test sprayed", first, and checked several days later to make sure that leaf wilting or damage does not occur.

When used as directed, SoluNeem will destroy targeted insect larvae when they, (1), eat sprayed plants, or (2), come in contact with the spray. SoluNeem eliminates insects by stopping the insect's growth, and is effective on all insects listed, insect larval stages and pupae.

MODE OF ACTION

SoluNeem controls insects in the larval, pupal, and nymphal stages by interfering with the metabolism of ecdysone. Insects typically die between larval to larval, larval to pupal, nymph to nymph molts, or during adult eclosion.

COMPATIBILITY

SoluNeem has been found to be compatible with the most commonly used non-alkaline insecticides, fungicides and water soluble fertilizers in the neutral pH range. Check compatibility by using the correct proportion of each the products application rate in a quart or gallon container. Solubilize SoluNeem first in the mixture. Test the tank-mix combinations for possible adverse effects (such as settling out, flocculation, etc.) and for phytotoxic effects on a small sample of plants prior to use. As environmental conditions can alter the interactions between compounds, test compatibility for both new and previously used combinations. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use SoluNeem with Bordeaux mixture, triphenyltin hydroxide, lime sulfur, Rayplex iron or other highly alkaline materials. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

When using SoluNeem in combination with other products, use SoluNeem at the rate, or half the rate, specified in the Use Rate table. Follow the directions for use, precautions and limitations for use on all of the product labels used in the combination. Some suggested tank mix combinations are as follows:
SoluNeem plus endosulfan*
SoluNeem plus chlorpyrifos*
SoluNeem plus acephate*
SoluNeem plus Bacillus thuringiensis* (BT)
SoluNeem plus bifenthrin*
SoluNeem plus esfenvalerate*
SoluNeem plus abamectin*
SoluNeem plus diflubenzuron*
SoluNeem plus pyrethrum + piperonyl butoxide (for fogging use)*

- Always follow the manufacturer's Directions for Use and Precautionary Statements.

Use SoluNeem on vegetables, coconut palms and other food crops with such chemicals as Endosulfan.

APPLICATION INSTRUCTIONS

SoluNeem is exernpt from tolerances and my be applied as directed to any food crop up to and including the day of harvest at a rate not exceeding 0.75 lb (20 grams active ingredient) per acre per application.

A) Agricultural/Commercial Uses

READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE

To apply SoluNeem select a suitable power or pump pressure try sprayer or a hand held trigger type sprayer that will deliver a forceful, fine, leaf and fruit covering, wetting, spray mist. To get thorough spray coverage on waxy or pubescent plant surfaces the addition of small amount of a suitable sticker agent (such as NuFilm P) added to the spray mix, at the recommended rates may give better foliage, insect coverage and control.

APPLICATION METHOD AND EQUIPMENT: Apply SoluNeem as a foliar spray or a drench to soil or soil-less media (e.g., greenhouses and mushoom houses) to control insects and nematodes. When needed, drench soil to control soil-borne pests, including soil-borne larvae of foliar insect pests. When applying as a drench, avoid excessive leaching. Apply SoluNeem through sub-surface soil treatment equipment (e.g. turf grass). To repel adult flies, apply through fogging equipment. Always follow equipment manufacturers use directions.

Apply SoluNeem by using any powered or manual pesticide application equipment, which includes but is not restricted to: high-volume, low- volume, ultra-low volume, electrostatic, fogging, and chemigation. Follow the original manufacturer's recommendations when using these types of equipment.

For optimum results, 2 to 3 applications made at 7 to 10 day intervals is recommended, unless otherwise specified. Foliar applications should be made to both side of leaves. In addition, a sticker agent used as per the manufacturer's recommendations may improve product performance.

B) Residential Use

READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE

To apply SoluNeem select a suitable a hand held trigger type sprayer that will deliver a forceful, fine, leaf and fruit covering, wetting, spray mist. To get thorough spray coverage on waxy or pubescent plant surfaces the addition of small amount of a suitable sticker agent (such as NuFilm P) added to the spray mix, at the recommended rates may give better foliage, insect coverage and control.

APPLICATION METHOD AND EQUIPMENT: Apply SoluNeem as a foliar spray to control insects and nematodes. Apply SoluNeem through sub-surface soil treatment equipment (e.g. lawn grass). To repel adult flies, apply through fogging equipment. Always follow equipment manufacturers use directions.

Apply SoluNeem by using any powered or manual pesticide application equipment. Follow the original manufacturer's recommendations when using these types of equipment.

For optimum results, 2 to 3 applications made at 7 to 10 day intervals is recommended, unless otherwise specified. Foliar applications should be made to both side of leaves. In addition, a sticker agent used as per the manufacturer's recommendations may improve product performance.

SOLUNEEM USE RATE RECOMMENDATIONS FOR KEY PESTS BY USE SITE

Soluneem is intended for use on outdoor plants and food crops, mushroom houses, plants grown indoors or in greenhouses, shade cloth, interiors capes and nurseries. It can be used to control any of the following insects and nematodes.

Use the tables below to determine the appropriate use rate for your site / pest combination.

SOLUNEEM PEST CONTROL CHART: USE RATES for indoor and outdoor plants including, FOOD CROPS, TREES, TURFGRASS, NURSERY, GREENHOUSE, INTERIORSCAPE, & LANDSCAPE PLANTS.

PEST	RATES: SoluNeem™ oz's./Acre-tsp./1,000 sq.ft.	COMMENTS For Spray, Drench or Chemigation.
WHITEFLIES, such as: Greenhouse whiteflies, Silverleaf white flies, Woolly whiteflies.	6 ounces in 50 gal water/A 1 tsp /1 gal. water/1,000 sq.ft.	Make sure that spray covers upper, lower and all surfaces of leaves fruit and twigs.
LEAF MINERS, such as Azalea leafminers, Birch leafminers, Citrus leafminers, Serpentine leafminers	6 ounces in 50 gal water/A 1 tsp /1 gal. water/1,000 sq.ft.	Apply to new growth in spring before new larvae enter plant foliage. Repeat application at 10 to 14 day intervals if new infestations are expected.
SCALE, Crawlers: such as Brown Soft Scale, California red scale, Coffee Scale, Olive Scale, San Jose Scale.	6 ounces in 50 gal water/A 1 tsp /1 gal. water/1,000 sq.ft .	Make sure to thoroughly spray upper, lower and all surfaces of leaves and twigs.
MEALY BUGS Such as Citrus Mealybugs	6 ounces in 50 gal water/A 1 tsp /1 gal. water/1,000 sq.ft.	Spray to thoroughly cover twigs and leaves.
THRIPS, such as: Citrus thrips, Onion thrips, thrips palmi,	6 ounces in 50 gal water/A 1 tsp /1 gal. water/1,000 sq. ft.	Spray in spring when young nymphs first appear on foliage.
APHIDS, such as: Cotton aphids, Green peach aphids, Pea aphids, Potato aphids	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Spray to wet lower side of leaves when "leaf curl" first appears.
PSYLLIDS, such as: Pear psylla	Same as above	Spray for new "instar" nymphs appearing on new discolored foliage.
BUGS, Nymphs of: such as Box-elder bugs, Chinch bugs, lygus bugs, spittle bugs, stink bugs,	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Spray early when nymphs are young. Soluneem™ will control "instar" growth until they die.
FLIES, Larvae of: such as Blueberry Maggot, Cherry Maggot, Crane Flies, Fruit flies, Midges, Onion Maggots, Tip worms, Walnut husk fly larvae.	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	For Food and Non-food crops spary when larvae first appear.
SAWFLIES, Larvae of: such as: European Pine Sawflies, Yellow headed pine sawflies,	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Spray when first larvae appear when plants start new growth.
CATERPILLARS, Such as: Armyworms, Artichoke plume moth, Bagworms, Bollworms,	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Spray when first larvae worms appear. Repeat applications in 7 to 10 days. For continued pest control in the spring

7/12

Budworms, Cabbage butterflies, Cabbage loopers, Cankerworms, Caseworms, Corn Earworms, Cutworms, Diamond back moths, Fireworms, Fruitworms, Grapeleaf skeletonizer, Gypsy moths, Hornworms, Imported Cabbage worm, leaf perforators, Leafrollers, Melonworms, Navel orangeworms, Oblique banded Leafrollers, Omnivorous Leafrollers, oriental fruit moths, Pickleworms, Pine tip moths, Pinworms, Red banded leaf rollers, Sod webworms, Soybean loopers, Tent Caterpillars, Tobacco budworms, Tussocks moth larvae.		or fall when insect infestations are expected spray ornamentals and other plants at intervals of 2 to 3 weeks.
BEETLES, Larvae of: such as Bark beetles, Blueberry Flea beetles, Boll weevils, Colarado potato beetles, Flea beetles, Japanese beetles, Leaf beetles, Mexican, bean beetles, Phylloxera, Rose Chafers, Twig girdlers	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Spray when pests first appear. For Food Crops. Repeat application after 7 to 10 days. Do not use with oil! Make sure that all plant surfaces are thoroughly spray treated. Repeat in 5 to 7 days if required.
WEEVILS, Such as Black vine weevils, Pepper weevils, Strawberry vine weevils.	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Foliar anti-feedant sprays will stop adult feeding. Make at least 3 to 4 applications 10 days apart.
BORERS, Larvae of: Peach twig borer, Peach tree borers, Cranberry borers.	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	Thoroughly spray in spring after egg hatch to control young larvae.
MOLE CRICKETS, nymphs and young "in-stars". Turf Treatment.	6 ounces in 50 gal water/A 1 tsp 11 gal. water/1,000 sq.ft.	For turfgrass, spry to drench turf for young cricket nymphs in spring. Stops young from growth to adults.
MUSHROOM FLIES, Nematodes and Phorid Flies	Mix ½ oz. in 1 to 2 gallon of water and mist over, (or drench) 1,000 sq.ft.	See "For Mushrooms" Section on this label.

USE SITES FOR SOLUNEEM

SoluNeem can be used on Green-house: food crops, such as: Brassica (cole) crops, cucurbits, eggplants, herbs and spices, legumes, peppers, tomatoes.

MUSHROOMS, Varieities such as: Agaricus, enoki, maitake, oyster, shitake, and other specialty mushrooms

FOOD CROPS, including:.....
Root ,and tuber vegetables, such as: Artichoke, beets carrots, ginger, horseradish, potatoes, radishes, rutabagas, sweet potatoes. turmeric, turnips, yams.
Leafy vegetables (including Brassica leafy vegetables), such as: Amaranth, broccoli, Brussels sprouts, cabbage, cauliflower, celery,' chervil, Chinese cabbage, collards, cress, endives, fennel, kale, kohlrabi. lettuce, mizuna ('mustard greens, parsley, purslane, rape greens, rhubarb, spinach, Swiss chard.
Legume vegetables, such as: beans (field, kidney etc.), chick-peas, cowpeas, guar, jackbeans, lablab beans, lentils, peas, pigeon peas, soybeans, sword beans.

Fruiting vegetables, such as: Eggplants, ground-cherries, pepinos, peppers, pimentos, tomatillos, tomatoes.
Cucurbit vegetables, such as: bitter melons, Chayotes, Chinese wax gourds, citron melons, cucumbers, gherkins, gourds, **muskmelons** (such as cantaloupes, casabas cranshaw etc.) pumpkins, squash, watermelons.
Citrus fruits, such as: Calamondins, citrus citrons, citrus hybrids, Grapefruits, Kumquats, Lemons, Limes, Mandarins, Oranges, pumellos, satasuma mandarins.
Pome fruits, such as: Apples, crabapples, loquats, mayhaws, oriental pears, pears, quinces.
Stone fruits, such as: Apricots, cherries, nectarines, peaches, plums, prunes.
Berries, such as: Blackberries, caneberries, blueberries, currants, cranberries, elderberries, gooseberries, huckleberries, loganberries, rasberries, strawberries, youngberries.
Cereal grains, such as: Barley, buckwheat, corn, millet, oats, popcorn, rice, rye, sorghum, teosinites, triticale hybrids, wheat, wild rice.
Herbs and spices, including but not limited to: allspice, ahgelica, anise, annatto, balm, basil, black and white peppers, borage, burnet, camomile, caper buds, cardamom, caraway, cassla, catnip, celery seeds, chervil, chives, cinnamon, caraway, cloves, corrianer (cilantro), costmary, cumin, curry leaf, dills, fennels, fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lovage, mace, marigolds, marjoram, mustard seeds, nasturtium, nutmeg, parsley, pennyroyal, pepper (black & white), poppy seeds, rosemary, rue, saffron, sage, savory, sweet bay (bay leaf), tansy, tarragon, thyme, vanilla, wintergreen, woodruff, wormwood.
Bulb vegetables such as Garlic, leek, onions, shallots.
Nuts, such as: Almonds, beechnuts, Brazil nuts, butternuts, cashews, chestnuts, chinquapin, Coconuts, filberts, hickorynuts, Imacadamia, pecans, pistachios, walnuts.
Oilseed crops such as: Canola, castor, crambe, guar, jojoba, peanuts, rape, safflower, sesame, soybean, sunflower.
Tropical fruits: such as Atemoyas, bananas, breadfruits, cherimoyas, durians, guavas, malangas, mangos, papayas, passionfruits, starfruits.
Other food & non-food crops: *such as Asparagus, avocados, birdseed, cacao, coffee, edible flowers, feijoa, figs,* ginseng, grapes, guayule, hops, kiwis, okras, olives, palms, papayas, pawpaws, persimmons, pineapples, rambutans, sugarcane, tamarillos, tea, tobacco, water chestnuts, watercress.
Ornamental Plants: such as: African violets, ageratum, aster, aucuba, begonia, cacti, calendula, calla, carnation, ceanothus, chrysanthemum, cineraria, coleus, cyclamen, daffodil, dahlia, delphinium, ficus, foliage plants, fuschia, gardenia, geranium, gloxinia, hyacinth, hydrangea, iris, ivy, lily, maidenhair fern, marigold, narcissus, orchid, pansy, pelargonium, peony, phlox, pittisporum, poinsettia, pyracantha, rubber plant, snapdragon, stock, tulip, wandering jew, yew, yucca, zinnia.
Ornamental Trees and Shrubs: such as: Andromeda, Arbovitae, ash, Austrian pine, azalea, beech, birch, birdsnest spruce, blue spruce, bouginvillia, boxwood, butternut, camellia, cedar, chamaecyprus, dogwood, douglas fir, elm, euonymus, firethorn, forsythia, hackberry, hawthorn, hemlock, hickory, holly, honeylocust, horsechestnut, ilex, juniper, larch laurel, lilac, linden, London plane, magnolia, manvilla, maple, mimosa, mountain ash, myrtle, oak, pachysandra, peach, pine, phinota, pines, plane tree, poplar, privet, quince, rhododendron, roses, spruce, sycamore, white cedar and white pine.

FOR TURF GRASSES

Bent grass	
Bermuda grass	Fescue
Bluegrass, annual	Ryegrass; annual
& perennial	Ryegrass; perennial
Buffalo grass	St. Augustine grass
Centipede grass	Wheat grass
	Zoysia grass

For control of Sod Webworms, Cutworms, Aphids, Leafhoppers, ants, and chiggers: use a suitable pressure sprayer and mix 1 tbsp. in 2 to 3 gal. of water and apply to 2,500 sq.ft of turf. Apply when insect larvae first appear and if necessary repeat application in 10 to 14 days. The use of an approved "spreader sticker" may help the spray to penetrate turf down to the larvae/worm feeding area.

***SouluNeem™* for Mushrooms and the Mushroom House**

For Mushroom Flies, Nematodes and Phorid Flies use SoluNeem™ at the rate indicated on the PEST CONTROL CHART as a drench to the casing layer, media or compost. Make 4 to 5 applications 7 to 10 days apart.
To repel fly adults, apply with fogging equipment at the first sign of activity. Can be applied between breaks up to the final flush.

CHEMIGATION OF SOLUNEEM

General Information

Apply this product only through drip (trickle) or sprinkler (center pivot, lateral move, end tow, side roll, traveler, big gun, solid set, or hand move), flood (basin) 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 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.

Solubilize SoluNeem with water before introduction into the system; use the diluted mixture within 8 hours. Do not apply in irrigation water if the pH exceeds 7.0. The optimum pH for application is a range of 5.5 to 6.5. if needed, the pH of the irrigation water can be adjusted by use of a suitable buffering agent. Agitation is necessary. Apply at the rate stated in the Directions for Use using sufficient water to achieve an even distribution within an 8 hour period. Do not apply SoluNeem at a rate that exceeds 20 grams active ingredient per acre. If applying SoluNeem in combination with other products refer to the compatibility statement in the *Directions for Use section.*

OBSERVE THE FOLLOWING PRECAUTIONS IF YOUR CHEMIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM

Public water system 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 at least 25 individuals daily at least 60 days out of a year.

Chemigation systems connected to a public water systems must contain a functional, reduced-pressure zone (RPZ) , backflow preventer 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 of overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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, or in the cases where there is not a water pump, 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.

Do not apply when wind speeds favor drift beyond the area intended for treatment.

STATEMENTS CONCERNING THE OPERATION OF SPRINKLER CHEMIGATION; DRIP (TRICKLE); UTILIZING A PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM

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 that 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.

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

STATEMENTS CONCERNING THE OPERATION OF FLOOD (BASIN) IRRIGATION UTILIZING GRAVITY FLOW OR PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM.

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.

a. The system must contain a functional interlocking check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

b. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of the fluid back toward the injection pump.

c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side to 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.

d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

e. 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.

f. 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.

STORAGE AND DISPOSAL FOR AGRICULTURAL/COMMERCIAL USE

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

PESTICIDE STORAGE: *Store product in the original labeled container in a cool, dry, locked place out* of reach of children. Keep containers tightly closed when not is use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

RESIDENTIAL PRODUCT DISPOSAL: As a responsible environmental practice, where possible, it is recommended that all of the contents of the container be used, carefully following label directions and precautions.

IF EMPTY: Do not reuse this container. Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local waste agency or "1-800 CLEANUP" for disposal instructions. Never place unused product down any indoor or outdoor drain

SPILL: In case of product spill: Sweep up material and use as directed. If contaminated with soil or other particulate, dispose of according to PRODUCT DISPOSAL directions above.

STORAGE AND DISPOSAL FOR RESIDENTIAL USE

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

PESTICIDE STORAGE: Do not store this product above 100^{0}F or below 20^{0}F for extended periods of time. Store product in the original labeled container in a cool, dry, locked place out of reach of children. Keep containers tightly closed when not is use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

RESIDENTIAL PRODUCT DISPOSAL: As a responsible environmental practice, where possible, it is recommended that all of the contents of the container be used, carefully following label directions and precautions.

IF EMPTY: Do not reuse this container. Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local waste agency or "1-800 CLEANUP" for disposal instructions. Never place unused product down any indoor or outdoor drain

SPILL: In case of product spill: Sweep up material and use as directed. If contaminated with soil or other particulate, dispose of according to PRODUCT DISPOSAL directions above.

IMPORTANT: PLEASE READ BEFORE USE

To the extent consistent with applicable laws, SoluNeem, Inc. warrants that (a) this product conforms to the chemical description on its label; (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, cautions and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states, or under

all application, weather and crop conditions. There are no express warranties other than those set forth herein. Soluneem, Inc. neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. SoluNeem, Inc. expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality of performance.

This warranty does not extend to, and the user shall be solely responsible for, any loss or damage that results from the use of this product in any manner that is inconsistent with this label's directions, or cautions.