

SEP 16 1987

Dr. W.T. Lawhorn
International Spike, Inc.
P.O. Box 1750
Lexington KY 40593-1750

Dear Dr. Lawhorn:

Subject: Add Use on Containerized Plants in Nurseries
and Greenhouses
Jobe's Spikes 1 $\frac{1}{2}$ Carbofuran Insecticide
EPA Registration No. 46260-19
Your Application Dated March 17, 1987

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

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

Sincerely yours,

Dennis H. Edwards, Jr.
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

92630:I:Edwards:E-6:KENCO:6/15/87:6/23/87:SONJA:LISA:EK:BJP

BEST AVAILABLE COPY

OFFICE FILE COPY

7371, 7381 or 7391

Front Panel



Spikes

Carbofuran Insecticide

With Fertilizer 414-7371, 414-7381 or 414-7391

Professional Formula to Protect Commercially Grown Containerized Ornamental Plants in Nurseries and Greenhouses

(SPECIALLY DESIGNED FOR USE WITH SUPPLEMENTAL FERTILIZER SYSTEMS)

KEEP OUT OF REACH OF CHILDREN

CAUTION: (SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS)

Active Ingredient (by Weight)

Carbofuran: [2,3-dihydro-2,2-dimethyl-7-benzofuran methylcarbamate]	1.0%
Total inert ingredients	99.0%
	100.0%

Guaranteed Fertilizer Analysis:

Calcium (Ca)*	2.00%
Combined Sulfur (S)*	1.50%
Copper (Cu)*	0.09%
Iron (Fe)*	1.45%
Manganese (Mn)*	0.35%
Zinc (Zn)*	0.15%

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(7371)

Derived from Calcium Sulfate, Copper Oxide, Copper Sulfate, Iron Oxide, Iron Sulfate, Manganese Oxide, Manganese Sulfate, Zinc Oxide and Zinc Sulfate. * The Calcium, Sulfur, Copper, Iron, Manganese and Zinc materials provide 1.4% occluded slow release Calcium (Ca), 0.7% occluded slow release Sulfur (S), 0.07% occluded slow release Copper (Cu), 0.8% occluded slow release Iron (Fe), 0.3% occluded slow release Manganese (Mn) and 0.1% occluded slow release Zinc (Zn).

(7381)

Derived from Calcium Sulfate, Copper Oxide, Copper Sulfate, Iron Oxide, Iron Sulfate, Manganese Oxide, Manganese Sulfate, Zinc Oxide and Zinc Sulfate. * The Calcium, Sulfur, Copper, Iron, Manganese and Zinc materials provide 1.6% occluded slow release Calcium (Ca), 0.5% occluded slow release Sulfur (S), 0.08% occluded slow release Copper (Cu), 0.5% occluded slow release Iron (Fe), 0.3% occluded slow release Manganese (Mn) and 0.1% occluded slow release Zinc (Zn).

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Front Panel Continued

(7391)

Derived from Calcium Sulfate, Copper Oxide, Copper Sulfate, Iron Oxide, Iron Sulfate, Manganese Oxide, Manganese Sulfate, Zinc Oxide and Zinc Sulfate. * The Calcium, Sulfur, Copper, Iron, Manganese and Zinc materials provide 1.5% occluded slow release Calcium (Ca), 1.2% occluded slow release Sulfur (S), 0.08% occluded slow release Copper (Cu), 1.1% occluded slow release Iron (Fe), 0.3% occluded slow release Manganese (Mn) and 0.1% occluded slow release Zinc (Zn).

International Spike, Inc.
817 East Third St.
Lexington, Kentucky 40505

Pat. Nos. 3,892,552; 4,348,218
Des. No. 236,149
EPA Est. 46260-KY-01 EPA Reg. No. 46260-19

Jobe's® is a Registered Trademark of International Spike, Inc.

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Contents: 3000 - 6 Gram Spikes Net Weight 39 lbs. 10 oz.

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Contents: 450 - 50 Gram Spikes Net Weight 49 lbs. 9 oz.

(7391)

Contents: 150 - 150 Gram Spikes Net Weight 49 lbs. 9 oz.



Spikes

Carbofuran Insecticide

Professional Formula to Protect Commercially Grown Containerized Ornamental Plants in Nurseries and Greenhouses

(SPECIALLY DESIGNED FOR USE WITH SUPPLEMENTAL FERTILIZER SYSTEMS)

KEEP OUT OF REACH OF CHILDREN

CAUTION: (SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS)

AVISO:

PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada amplimente.

PRECAUTIONARY STATEMENTS: HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wear protective gloves when handling this product. Wash hands thoroughly with soap and water after handling. Do not use on or around bearing fruit trees or vegetal plants.

STATEMENT OF PRACTICAL TREATMENT: If swallowed, call a Physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Do not give anything by mouth to an unconscious or convulsing person. If on skin, remove contaminated clothing and wash affected areas with soap and water. If in eyes, flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARD: This product is toxic to fish, wildlife and birds. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.



Spikes

~~Carbofuran Insecticide~~

**Professional Formula to Protect Commercially Grown Containerized
Ornamental Plants in Nurseries and Greenhouses**

(SPECIALLY DESIGNED FOR USE WITH SUPPLEMENTAL FERTILIZER SYSTEMS)

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CAUTION: (SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS)

CONDITIONS OF SALE

THE DIRECTIONS ON THIS LABEL FOR USE OF THIS PRODUCT ARE BASED ON RESEARCH AND FIELD TRIALS ON THE PLANTS LISTED ON THE LABEL. NO CLAIMS ARE MADE OR IMPLIED FOR PLANTS OR PESTS NOT LISTED ON THIS LABEL. DUE TO THE LARGE NUMBER OF SPECIES AND VARIETIES OF ORNAMENTAL AND NURSERY PLANTS, IT IS IMPOSSIBLE FOR THE MANUFACTURER TO TEST THIS PRODUCT ON ALL PLANTS UNDER ALL POSSIBLE GROWING CONDITIONS. TO DETERMINE SUITABILITY AND SAFETY FOR A PARTICULAR USE, THE PROFESSIONAL USER SHOULD TEST A SMALL NUMBER OF PLANTS OF EACH VARIETY FOR PHYTOTOXICITY AND EFFECTIVENESS PRIOR TO WIDESPREAD USE.

FURTHER, IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS OF CROP INJURY, INSUFFICIENT EFFECTIVENESS OR OTHER UNINTENTIONAL CONSEQUENCES WHICH COULD RESULT FROM FACTORS WHICH ARE BEYOND THE CONTROL OF THE MANUFACTURER; INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS, PRESENCE OF OTHER PESTICIDES OR GROWTH REGULATORS, RESISTANCE DEVELOPMENT OR MANNER OF USE AND/OR HANDLING CONTRARY TO LABEL INSTRUCTIONS.

ALL SUCH RISKS ARE ASSUMED BY THE BUYER.

7371,7381 or 731

Back Panel



Spikes

Carbofuran Insecticide

Professional Formula to Protect Commercially Grown Containerized Ornamental Plants in Nurseries and Greenhouses

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KEEP OUT OF REACH OF CHILDREN

CAUTION: (SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS)

GENERAL INFORMATION:

Jobe's Spikes with 1% Carbofuran Insecticide are an effective way to control common pests on ornamental nursery and greenhouse plants. Jobe's unique patented slow-release formulation provides systemic pest control for six to eight weeks. Soil moisture gradually dissolves the spike, releasing a systemic insecticide which enters the plant through the roots and is translocated to all parts of the plant to protect against sucking, chewing and boring insects.

Nurseries:

Plants:

American Holly

Azalea

Burford Holly

Dogwood

Honey Locust

Lilac

Magnolia

Palms

Photina

Pine

Pyracantha

Rhododendron

Pests:

Aphid (black citrus), Black Vine Weevil, Brown Soft Scale, Flea Beetle, Florida Wax Scale, Leafminer (Holly), Mealybug.

Aphid, Black Vine Weevil, Flea Beetle, Mealybug, Thrips.

See American Holly

Aphid, Dogwood Borer, Flatheaded Borer, Florida Wax Scale, Leafhopper, Leafminer, Mealybug, Thrips.

Aphid, (cowpea), Leafhopper.

Aphid (melon), Borer (lilac), Leafminer (lilac, chrysanthemum).

Aphid (Foxglove, Tuliptree), Brown Soft Scale, Florida Wax Scale, Leafhopper, Mealybug, Thrips.

Aphid, Brown Soft Scale, Florida Wax Scale, Mealybug, Thrips.

Florida Wax Scale, Mealybug, Thrips.

Aphid (many species), Brown Soft Scale, Flatheaded Borer, Florida Wax Scale, Leafminer, Mealybug, Pine Tip Moth.

Aphid, Brown Soft Scale, Florida Wax Scale.

Aphid, Black Vine Weevil, Mealybug, Thrips.

Back Panel Continued

Greenhouses:

Plants:

Chrysanthemums
Azaleas
Palms
Gerbera Daisies
Rose
Salvia
Dieffenbachia
Philodendron
Pothos
Schefflera
Spathiphyllum
Ficus

Pests:

Aphid, Leafhopper, Leafminer, Mealybug, Thrips.
See Nurseries
See Nurseries
Aphid, Brown Soft Scale, Mealybug, Thrips.
Aphid, Brown Soft Scale, Flatheaded Borer, Leafhopper, Thrips.
Aphid, Brown Soft Scale, Leafhopper, Mealybug.
Aphid, Mealybug.
Brown Soft Scale, Mealybug, Thrips.
Brown Soft Scale, Mealybug.
Aphid, Brown Soft Scale.
Aphid
Brown Soft Scale, Florida Wax Scale, Mealybug, Thrips.

Back Panel Continued

DIRECTIONS: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read the entire label. **FAILURE TO FOLLOW DIRECTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, INSUFFICIENT DISEASE CONTROL OR PERSONAL INJURY HAZARD AS NOTED IN THE PRECAUTIONARY STATEMENTS ON SIDE PANEL.**

APPLY SPIKES ONLY ONCE PER YEAR PER CONTAINER

(7271)

For Containerized Nursery and Greenhouse Plants: Push each spike 1-1/2 inches under the soil on opposite sides of the plant close to the edge of the container.

IF CONTAINER SIZE IS:

4-inches

1-Gallon or 6-inches

2-Gallon or 8-inches

3-Gallon or 10-inches

SPIKE SIZE IS:

6-gram

DOSAGE:

One Spike

One Spike

Two Spikes

Three Spikes

STORAGE AND DISPOSAL: Store only in original container in a cool, dry place. Do not reuse original container. Securely wrap original container in several layers of newspaper and discard in trash. Do not store in living areas of the home.

Beck Panel Continued

(7381)

For Containerized Nursery and Greenhouse Plants: Make a hole and insert the spike 1-1/2 inches under the soil on opposite sides of the plant close to the edge of the container.

IF CONTAINER SIZE IS:

5-Gallon or 12-inches

7-Gallon or 14-inches

10-Gallon or 17-inches

SPIKE SIZE IS:

50-gram

DOSAGE:

One Spike

One Spike (small plant) or

Two Spikes (large plant)

Two Spikes (small plant) or

Three Spikes (large plant) or

One Spike per foot of

shrub foliage diameter

STORAGE AND DISPOSAL: Store only in original container in a cool, dry place. Do not reuse original container. Securely wrap original container in several layers of newspaper and discard in trash. Do not store in living areas of the home.

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