

PM-111

Jacket Reg # 70160-4

1912

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

70160-4

DATE OF ISSUANCE

JAN 14 1997

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Insect Control Concentrate

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Natural Pest FX Inc.
1204 Southwind Court
Boca Raton, FL 33428

160 5-515056
18

161 5-515726
18

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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 conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

A. Within 6 months of receipt of this letter, you submit the following documents:

1. Revised Confidential Statement of Formula (CSF) with the following changes:

a. Block 10 (Components in Formulations)

These are the actual components introduced into your product during manufacture. Your 11/1/96 CSF indicates that you introduce "Oil of Mustard" in your product at 4.5%. Your analysis indicated that your product contained 4.43% "Allyl Isothiocyanate", meaning that your "Oil of Mustard"

ATTACHMENT IS APPLICABLE.

SIGNATURE OF APPROVING OFFICIAL

DATE

consists of 98.4% "Allyl Isothiocyanate", which is far above the normal 85% to 93% expected. Apparently, there was an error made in mixing and/or analysis. After your first production run, you need to reanalyze your product for both actives to clarify the proper amounts of actives and their oil and oleoresin.

- 2. Submit a chemical analysis of your product for both actives, using the HPLC methods submitted previously for this product. The chemical analysis must include not only the summary value but copies of the actual graphs of the analysis.

If the nominal concentration for either active or the amounts of the oil and oleoresin differ from that on your formula dated October 28, 1996 and label, submit a revised CSF and label to correct the errors

- 3. The weight of one pound of product.

Based on specific gravity values provided so far on your Material Safety Data Sheet (MSDS) and your CSF, a number of divergent values could be computed:

Specific Gravity	Weight of Product (1 gal HOH = 8.345lb)
High 0.915 (CSF)	7.64 lb
Low 1.0 (MSDS)	8.345 lb

Therefore, as an interim value, we will assume that the weight of 1 gallon of product is "8 lb" and will base other calculations on this average figure. After your first production run, submit the weight of one pound of product.

- B. Make the labeling changes listed below and submit one (1) copy of final printed labeling before you release the product for shipment:

- 1. Add "EPA Reg. No. 70160-4" to your label.
- 2. Add the following text below your ingredient statement:

One gallon of the product contains 8.0 lb.

- 3 On the Right Panel, Page 3, incorporate these two sentences into your "General Information" section of your use directions, as indicated below
- 4 Remove the following sections of text from the use directions They may be placed after or before the use directions
 - a Notice
 - b Precautionary Statements
- 5 Add the following "Bee Precaution" under "Environmental Hazards" of the "PRECAUTIONARY STATEMENTS"

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation Avoid contact with eyes or clothing Wash thoroughly with soap and water after handling

FIRST AID

IF IN EYES Flush with plenty of water Call a physician if irritation persists

Environmental Hazards

Bee Precaution Do not apply prior to or during pollination as Insect Control Concentrate kills and repels bees and, therefore, adversely effects pollination

- 6 Structure your use directions as indicated below Note that we have left justified the subheadings (for example, "AGRICULTURAL USE REQUIREMENTS") of the heading, "DIRECTIONS FOR USE", so that it will be clear that the subheadings are subordinate to the heading

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

AGRICULTURAL USE REQUIREMENTS

Do not apply pesticide regulation

GENERAL INFORMATION

INSECT CONTROL CONCENTRATE uses only extract of chili and essential oil of mustard to create a unique Pesticide/Repellent alternative This dual action formula kills on contact and maintains a repelling action against Aphids Grasshoppers and other insects listed below

MIXING DIRECTIONS

Dilute INSECT CONTROL CONCENTRATE according to the following table, depending on level of infestation and the amount of diluted product needed, and mix thoroughly until a uniform consistency is obtained

Level of Infestation	Amount of Product Needed (oz)		
	1gal	20gal	200gal
Normal	1 5oz	30oz	300oz
Heavy	2 4oz	48oz	480oz

HAND APPLICATION DIRECTIONS [One Gallon]

To obtain maximum benefits, apply 2 4oz per gallon same day of application

GROUND MACHINE AND AERIAL APPLICATION

Apply by ground machine or aerial application at a rate of 20 gallons of diluted product per acre For normal infestations, this rate is equal to 30 oz of Insect Control Concentrate, 0 40 lb Capsaicin and related Capsaicinoids, and 0 35 lb Allyl Isothiocyanate per acre For heavy infestations, this rate is equal to 48 oz of Insect Control Concentrate, 0 63 lb Capsaicin and related Capsaicinoids, and 0 57 lb of Allyl Isothiocyanate per acre

Apply as a full coverage effects pollination

COMPATIBILITY

INSECT CONTROL CONCENTRATE is compatible 85 degrees F

5912
6

SITES AND PESTS CONTROLLED

Brassica ... leafminers, Mites

- 7 Revise your "Storage and Disposal" statement, which must appear after your use directions, as follows

Storage and Disposal

Do not contaminate by storage

STORAGE Storage only in the original container inaccessible to children and pets in a cool (35 and 75 Deg F), dry place, out of direct sunlight and away from heat, open flames, or hot surfaces Do not freeze

PESTICIDE DISPOSAL Wastes resulting facility

CONTAINER DISPOSAL Rinse container out of smoke

This registration will be subject to cancellation in accordance with FIFRA sec 6(e) if you do not comply with these conditions Your release for shipment of the product constitutes acceptance of these conditions

A stamped copy of the label is enclosed for your records

William W Jacobs, PhD
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

- Enclosures
- 1) Stamped label
 - 2) A-79 Enclosure

Peacock WP#10 A \Capsaicin\70160-4 NOT 305-5407,-6600 1/13/97

6912
7

(FRONT LABEL - INSECT CONTROL)

NATURAL
PEST FX
INC.

ACCEPTED
FOR COMBINING
in EPA Letter Dated

JAN 14 1997

INSECT CONTROL CONCENTRATE

under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
70160-4

KILLS AND REPELS INSECTS

FOR:

Fruits, Vegetables, Nuts, Field Crops, Grains, Flowers and Shrubbery

TO KILL AND REPEL:

Aphids, Mites, Thrips, Armyworms, Tomato Fruit Worms,
Leafhoppers, Leafminers, White Flies, Fire Ants, Grasshoppers,
and other listed insects

Active Ingredients: Capsaicin and related
Capsaicinoids *4.94 %
Allyl Isothiocyanate **4.43 %

Inert Ingredients :90.63 %

*Oleorisin of Capsicum **From Essential Oil of Mustard

EPA REG. NO. 70160 - EPA EST. NO. 70160-MD-01
KEEP OUT OF REACH OF CHILDREN

CAUTION

See right panel for additional Precautionary Statements

PERSONAL PROTECTIVE CLOTHING: Applicators and other listed
handlers must wear long sleeve shirt and long pants, shoes plus
socks.

net contents: 1 GALLON OR 55 GALLON DRUMS

MANUFACTURED BY:
NATURAL PEST FX INC.
ANNAPOLIS MD. 21403

REC'D EPA/OPP/DPD1
96 NOV -6 AM 11:55

7912

(TIGHT PANEL)

INSECT CONTROL CONCENTRATE uses only extract of chili and essential oil of mustard to create a unique Pesticide/Repellent alternative. This dual action formula kills on contact and maintains a repelling action against most insects as indicated on the front label.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

NOTICE

Distributor and Manufacturer disclaim all crop liability for product users, farmers, etc., when product is used in a manner inconsistent with labeling.

AGRICULTURAL USE REQUIREMENTS

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.

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (PPE) and Restricted Entry Interval (REI).

Do not enter or allow workers entry into treated areas during REI of 4 hours. PPE and work clothing required for early entry into 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 coveralls, tarp, gloves, and shoes plus socks.

For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

(RIGHT PANEL CONT)
GENERAL INFORMATION

INSECT CONTROL CONCENTRATE is composed of food grade ingredients. It kills and repels Aphids, Mites, Thrips, Armyworms, Tomato Fruit Worms, Leafhoppers, Leafminers, White Flies, Fire Ants, Grasshoppers and other insects. To obtain maximum benefits, apply every 7 to 10 days before infestation begins. If infestation is present, apply 1 1/2 oz of INSECT CONTROL CONCENTRATE per gallon of water every 4 to 5 days and increase to 3 oz per gallon of water after 10 days. Fruits and vegetables treated with INSECT CONTROL CONCENTRATE may be thoroughly washed and consumed the same day of application.

MIXING DIRECTIONS

Add 1 1/2 oz INSECT CONTROL CONCENTRATE to one gallon of clean water, agitating constantly until uniform consistency is obtained. When infestation is heavy, add 3 oz of INSECT CONTROL CONCENTRATE to 1 gallon of water. Apply as stated above.

METHOD OF APPLICATION

INSECT CONTROL CONCENTRATE may be applied by air or ground equipment.

PRECAUTIONARY STATEMENTS
KEEP OUT OF REACH OF CHILDREN

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

(CENTEP LABEL)

APPLICATION DIRECTIONS

Apply as a full coverage making sure both sides of the leaves are covered. Apply during cool periods of the day. Apply as a preventative treatment prior to insect infestation. Make the first application at foliar emergence and repeat on a 10-14 day spray schedule to maintain the repelling effect. Do not apply prior to or during pollination as INSECT CONTROL CONCENTRATE kills and repels bees and therefore adversely affects pollination.

Use Restrictions

For killing and repelling certain important insects INSECT CONTROL CONCENTRATE is registered for the following Sites and Pests

Brassica Vegetables - (Broccoli Brussels Sprouts Cabbages Chinese Mustard Cauliflower collards, Kale Kohlrabi and Mustard Greens) For killing and repelling Aphids Beetles Caterpillars Cut worms Loopers Maggots Fleas whiteflies, and earthworms

Bulb Vegetables - (Garlic Leek Onion and Shallot) For killing and repelling Army worms Leafminers, Maggots Thrips and earthworms

Cereal Grains - Barley Buck wheat Corn Millet Oats Popcorn Rice wheat and wild Rice For killing and repelling Aphids Army worms Beetles Borers Cut worms Earworms Grasshoppers Maggots Mites Rootworms White Grubs and earthworms

Citrus - (Calamondin Grapefruit Kumquat Lemon Lime Orange Tangerines, For killing and repelling Aphids Cutworms Leafrollers Mites Scale Thrips and whiteflies

Cotton - For killing and repelling Aphids Armyworms Bollworm Boll weevils Cotton Leaf Perforator Cutworms Fleahopper Loopers Lygus Bugs Mites Saltmarsh Caterpillar Thrips and whiteflies

Cucurbit Crops - Cucumber Cantaloupe Casa Melon Gherkin Gourd Honeydew Melon Mango Melon Muskmelon Pumpkin Squash and winter Squash and watermelon) For killing and repelling

{CENTEP LABEL CON T}

Aphids Beetles Leafhoppers Leafminers Loopers Mites Thrips
Whiteflies and earthworms

Forage Crops - (Alfalfa Clover Grasses Timothy and Vetch)
For killing and repelling Aphids Armyworms Caterpillars Chinch
Bugs Cutworms Grasshoppers Japanese Beetles Leafhoppers
Lygus Bugs, Mites Spittlebugs Thrips weevils, and earthworms

Fruiting Vegetables - (Bell Pepper Chile Pepper Cooking Pepper
Eggplant Ground Cherry Pepino Pimento Sweet Pepper
Tomatillo and Tomato For killing and repelling Aphids Beetles
Cutworms Fruit crabs Horn crabs Leafminers Loopers, Weevils
Mites Plant Bugs Whiteflies, and earthworms

Kiwi - For killing and repelling Japanese Beetles

Leafy Vegetables - Celer Cress Endive Fennel Lettuce
Crack Spinach and Swiss Chard) For killing and repelling
Aphids Ear crabs Grasshoppers Leafhoppers Leafminers, Loopers
Saw bugs earthworms Whiteflies, and earthworms

Legume Vegetables - Beans including Phaseolus Spp Lupinus
Spp and Vigna Spp Broad Beans Chick Peas Guar Jackbean
Lablab Beans Lentils Peas and Soybeans) For killing and
repelling Aphids Beetles Borers, Curculios Cutworms Earworm
Ear crabs Leafhoppers Leafrollers Loopers Lygus Bugs
Maggots Mites Plant Bugs weevils Whiteflies and earthworms

Nut Trees - Almond Beech Nut Brazil Nut Butternut Chestnut
Chinquapin Filbert Hickory Nut Macadamia Nut Pecan Walnut
For killing and repelling Aphids Beetles Borers Earworm
Carpenterworms Casebearers Catocalas Curculios Gall wasp
Leafminers Mites Phylloxera Plant Bugs Sawflies Scale
Shuck crabs Spittlebugs Twig Girdlers Walnut Caterpillars
earthworms weevils

{CENTER LABEL CONT}

Ornamentals - (Flowers Shrubs and Trees For killing and repelling Aphids Bagworms Beetles, Borers Chafers Curculios Cutworm Leafhoppers Leafminers, Leafrollers Maggots Mealybugs Mites Plant Bugs Sawflies Scale Spittlebugs webworms and whiteflies

Peanuts - For killing and repelling Aphids Armyworms Earwigs Cutworms Leafhoppers Mites Rootworms, and Thrips

Pome Fruit Trees - (Apple Crabapple Mayhaws Pears Quince) For killing and repelling Aphids Appleworms Casebearers Codling Moths Curculios Leafhoppers Leafminers Leafrollers Maggots Mealy Bugs, Mites, Plant Bugs Psylla Sawflies Scale

Root and Tuber Vegetables - (Artichoke Beet Burdock Carrot Cassava Chicory Ginger Ginseng Horseradish Parsely Parsnip Potato Radish Rutabaga Salsify, Sweet Potato, Turnip and Yam) For killing and repelling Armyworms Beetles, Chinch Bugs Grasshoppers Leafhoppers Leafminers Mites Plant Bugs Psyllids Rust Flies Slugs Symphylans Thrips, Tuberworms weevils whiteflies white Grubs and wireworms

Small Fruits and Berries - (Blackberries Blueberries Boysenberries Cranberries, Currants Dewberries Elderberries Grapes Gooseberries huckleberries Clallieberries, Raspberries Strawberry Youngberries, For killing and repelling Aphids Beetles Borers Cambium chafers Curculios Cutworm Earwigs Fruitworms Grubs Leafhoppers Leafminers Leafrollers Maggots Mealy Bugs Mites Phylloxera Plant Bugs Rootworms Sawflies Scale Slugs Spittlebugs Stem Girdler Thrips Tree Crickets weevils whiteflies white Grubs and wireworms

Stone Fruit Trees - (Apricots Cherries sweet and sour Nectarines Peaches Plums) For killing and repelling Aphid Beetles Borers Fruitflies Fruitmoth Leafminers Mites

{LEFT PANEL}

RATE OF APPLICATION

Set equipment to thoroughly wet foliage at a mixture of 1 1/2 oz to 3 oz INSECT CONTROL CONCENTRATE to 1 gallon of water INSECT CONTROL CONCENTRATE is compatible with most surfactants and conventional pesticides The most effective ambient temperature range for application is 60 to 85 degrees F

USE RESTRICTIONS

- For killing and repelling certain important insect pests
- Do not use material if it cannot be applied according to the use patterns on the label

STORAGE AND DISPOSAL

STORAGE The optimum storage temperature is between 35 and 90 degrees F Do not freeze Do not store in direct sunlight Do not use or store near heat open flame or hot surfaces Keep out of reach of children and animals Store in a cool dry place Carefully open containers Do not contaminate other pesticides fertilizers water food or feed by storage

DISPOSAL Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility Do not contaminate water food or feed by disposal Rinse container thoroughly then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration or if allowed by state and local authorities by burning Do not burn stay away and out of smoke