

16-160

04/13/2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Joseph J. Barbera
Dragon Chemical Corporation
71 Carolyn Blvd.
Farmingdale, NY 11735

APR 13 2004

Dear Mr. Barbera:

Subject: Resubmission of Master Labeling
Cygon 2E
EPA Registration No. 16-160
Submission Date: April 13, 2004

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

1) The statements within the "Container Disposal" portion of the STORAGE AND DISPOSAL section of the label follow the format described within the Pesticide Registration (PR) Notice 2001-6, which was intended for residential/household use pesticides. Because Cygon 2E is an agricultural pesticide, replace the "Container Disposal" portion of the STORAGE AND DISPOSAL section of the label with the following:

"Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by State and local authorities, by burning. If burned, stay out of smoke."

2) Because Cygon 2E is considered to be an agricultural pesticide with no registered residential uses, the NON-AGRICULTURAL USE REQUIREMENTS section of the label needs to be deleted.

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment. If you have any questions regarding this letter, please contact Kable Bo Davis at (703) 306-0415.

Sincerely yours,

Daniel C. Kenny (01)
Product Manager
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

KD: 306-0415: IRB/PM01

CONCURRENCES

Table with 9 columns and 3 rows. Rows are labeled SYMBOL, SURNAME, and DATE. Values include 7505C, K. Davis, and 4/13/04.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

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APR 13 2004  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
16-160

DRAGON®

CYGON 2E  
DIMETHOATE SYSTEMIC INSECTICIDE

For commercial ornamental production in nurseries. Not for residential use. For the control of Leaf miners, Aphids, and certain other insects on Ornamentals and Vegetables.

**ACTIVE INGREDIENT:**

Dimethoate [O,O-dimethyl S-(N\_methylcarbamoylmethyl) phosphorodithioate].....23.0%

**INERT INGREDIENTS**.....77.0%

**TOTAL**.....100.0%

Contains 2 lbs. Dimethoate per gallon  
Cygona Reg. TM of American Cyanamid Co.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING - AVISO**

**FIRST AID**

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:

CHEMTREC AT: 1-800-424-9300

**IF INHALED:**

Move person to fresh air.

If person is not breathing, call 911, or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.

Call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING**

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15 to 20 minutes.

Call a poison control center or doctor for further treatment advice.

**IF IN EYES**

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED**

Call Poison Control Center or Doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by the poison control center or doctor.

Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1 - 800 - 222- 1222 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** This product may cause cholinesterase inhibition. Atropine is antidotal.

See Inside of label for Additional Precautionary Statements.

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EPA Reg. No. 16-160  
EPA EST. NO. 16-VA-1

**DRAGON CHEMICAL CORPORATION**  
P O Box 7311, ROANOKE, VA 24019, [www.dragonchemical.com](http://www.dragonchemical.com)

**Net Contents Liquid: 1 Gallon ( 3.785 liters)**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING**

**VAPOR HARMFUL  
HARMFUL OR FATAL IF SWALLOWED  
CONCENTRATED MATERIAL CAUSES EYE IRRITATION**

Avoid breathing vapor or spray mist. Avoid contact with skin or eyes. Use only with adequate ventilation. Do not contaminate food. Do not use in homes. Rinse spills on outside of container after use.

Do not contaminate feed and foodstuffs, drinking fountains, litter and feed troughs. Do not use in milk processing rooms, including milk houses and milk storage rooms. Do not apply this product by aerial application.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

1. Coveralls over short-sleeved shirt and short pants
2. Chemical-resistant gloves, such as barrier laminate or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure
6. Chemical-resistant apron when cleaning equipment

**Mixers and loaders must wear:**

1. Coveralls over short-sleeved shirt and short pants
2. Chemical-resistant gloves, such as barrier laminate or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear
6. Chemical-resistant apron when mixing or loading
7. For exposures in enclosed areas, use a respirator with either an organic vapor removing cartridge with a refilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). For exposures outdoors, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and 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:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on

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clean clothing.

3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This product is toxic to wildlife and aquatic invertebrates. 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. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product only as specified on this label.

#### CHEMICAL HAZARDS

COMBUSTIBLE DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAMES.

#### STORAGE AND DISPOSAL

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

**Storage:** Store product in original container in a cool, dry, locked place out of reach of children and pets.

**Pesticide Disposal :** Wastes resulting from the use of this product may be disposed of on site or at an approved waste facility.

**Container Disposal : If Empty:** Do Not reuse this container. Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency or call CHEMTREC AT 1-800-424-9300 for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### 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 the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, such as plants, soil, or water,

is:

1. Coveralls over short-sleeved shirt and short pants.
2. Chemical-resistant gloves, such as barrier laminate or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are **NOT** within the scope of the Worker Protection Standard 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. Keep children and pets off treated area until spray has dried.

SA-50 Cygon 2E Dimethoate Systemic Insecticide controls certain soft bodied insects such as aphids, leaf miners, mites, thrips and scales on ornamentals and certain vegetables as listed below.

Mix this material with water, using the rates shown below. The addition of a spreader-sticker at the proper label rate will aid in spray retention. Spray plants in a manner that will uniformly coat upper and lower surfaces of foliage. Applications should be started as soon as insects are observed and repeated at 7 to 10 day intervals as long as needed. On vegetables listed below, the interval in days between the last application of this product and harvest is shown in parenthesis after each crop.

#### OUTDOOR ORNAMENTAL PLANTS

When applying to ornamentals make full cover sprays at the specified intervals. For the proper timing for the control of specific pests, consult your state agricultural extension service.

**AZALEAS:** For the control of Leaf Miners, Lace Bugs, Mites, Tea Scale, and White Flies mix 1 Quart per 100 gallons (2 teaspoonfuls per gallon) of water.

**BIRCH:** For the control of aphids and leafminers mix 1 Pint per 100 gallons (1 teaspoonful per gallon) of water. For leafminers, apply when leaves are expanded (about mid-May) and repeat in early July. **PAINT METHOD:** To control leafminers, an application to the bark can be made. The material will be absorbed and carried by the sap up to the leaves. To apply, paint a band of undiluted Dragon Cygon 2E Dimethoate Systemic Insecticide around the trunk of the tree below the lowest branches. The width of the band must be equal to the thickness of the trunk at that location (maximum 6"). Make first treatment at bud break. Weather conditions are important for the correct timing of treatment. If weather is warm and buds break fast then apply when green tips are visible. If weather is cold apply when leaves are almost completely unfolded. Make a second application 6 weeks after the first. Do not make more than two applications per season. Newly planted trees or those with trunks less than 1 inch in diameter may be injured. Do not apply to the trunk of any other tree or severe injury may result.

**BOXWOOD:** For the control of Leaf Miners, Mealy Bugs, and Mites mix 1 Quart per 100 gallons (2 teaspoonfuls per gallon) of water.

**CAMELLIAS:** For the control of aphids, camellia scale, mites, and tea scale mix 1 Quart per 100 gallons (2 teaspoonfuls per gallon) of water.

**FOLIAR SPRAY:** Apply 2 sprays 6 weeks apart the first year followed by annual applications after growth begins in the spring.

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**SOIL DRENCH:** Apply as a soil drench around the base of plants in early spring. Mix 4 tablespoonfuls per gallon of water and apply 1 gallon of solution per plant up to 6 feet tall. For larger plants, the rate should be increased proportionately.

**EUONYMUS :** For the control of Aphids and Scale mix 2 Quarts per 100 gallons (4 teaspoonfuls per gallon) of water.

**GLADIOLUS :** For the control of Aphids and Thrips mix 1 Quart per 100 gallons (2 teaspoonfuls per gallon) of water.

**HEMLOCK:** For the control of Mites and Scale mix 1 Quart per 100 gallons (2 teaspoonfuls per gallon) of water.

**JUNIPER:** For the control of Aphids, Leafhoppers, Mites, and Thrips mix 2 Quarts per 100 gallons (4 teaspoonfuls per gallon) of water.

**ROSES:** For the control of Aphids, cucumber beetle, leafhoppers, mites and thrips, mix 1 pint per 100 gallons (1 teaspoonful per gallon) of water and apply to the point of run-off.

#### **VEGETABLES**

Use the rate given below with 40-60 gallons of water per acre.

The interval in days between the last application of this product and harvest is shown in parentheses after each crop.

**BEANS (0) - 1-2 Pints - Aphids, Leafhoppers, Leaf Miners, Mites, Mealy Bugs**

**BROCCOLI (7), CAULIFLOWER (7), LEAF LETTUCE (14), SPINACH (14), COLLARDS (14), KALE (14), TURNIP (14), MUSTARD (14), SWISS CHARD (14), ENDIVE (14) - 1 Pint - Aphids, Leafhoppers, Leaf Miners**

**MELONS (3) - 1-2 Pints - Aphids, Leafhoppers, Leaf Miners**

**PEAS, (0), POTATOES (0), TOMATOES (7) - 1-2 Pints - Aphids, Leaf Miners**

NOTE: Do not make more than one (1) application per season on peas.

This pesticide is highly toxic to bees in treatment area. Do not apply to peas (lentils), beans (lupine), or melons if bees are visiting the areas to be treated when crop or weeds are in bloom.

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with the instructions and precautions given herewith.