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(LABEL)

NET CONTENTS 1 LITRE

PURINA*
CYGON 4-E(R)

EMULSIFIABLE CONCENTRATE

SYSTEMIC INSECTICIDE

CONTAINS DIMETHOATE

Controls houseflies in dairy barn, Loafing Sheds,
Pig parlors, poultry houses, calf barns, feedlots

AGRICULTURAL

GUARANTEE:

DIMETHOATE 43.5% W/W

REGISTRATION NO. 9074
PEST CONTROL PRODUCT ACT

DANGER POISON

READ THE LABEL BEFORE USING
SEE ATTACHED LEAFLET FOR ADDITIONAL USES

DISTRIBUTED BY OR MANUFACTURED FOR
RALSTON PURINA CANADA INC.

LASALLE QC H8N 1A1
WOODSTOCK, ONTARIO N4S 7Y5

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

May be harmful or fatal if swallowed, inhaled or absorbed through the skin. Avoid breathing vapour or spray mist. Use only with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling and before eating, drinking and smoking. Avoid contamination of food or feed products. Keep away from heat, sparks and open flame. Do not expose to direct sunlight. Remove animals from treatment area during application. Do not use in milk processing or milk storage rooms.

FIRST AID:

If on skin, wash immediately. If in eyes, flush eyes with water for 15 minutes; then seek medical attention. If swallowed, induce vomiting immediately; then seek medical attention. Never give anything by mouth to an unconscious person.

TOXICOLOGY:

Symptoms of poisoning include nausea, vomiting, pinpoint pupils, excessive salivation, muscle twitching, convulsions and coma. This product, upon repeated or prolonged use, may cause cholinesterase inhibition.

ATROPINE IS ANTIDOTAL:

Give 2 to 4 mg of atropine sulphate intramuscularly or intravenously immediately and every hour as required until pupils dilate. Pralidoxime chloride (2-PAM: PROTOPAM) may be effective as an adjunct to atropine. Use according to label directions. This product is toxic to birds and wild life. To reduce injury to bees, restrict application to the period after dark when bees are inside the hives or in the early morning before the bees are foraging in the fields. (Do not apply to such crops as alfalfa when in full bloom.)

RINSE/DRAIN AND DISPOSAL PROCEDURE:

Drain the container completely into the spray tank. Then rinse the container at least 3 times, filling at least one quarter full of water each time and draining into the spray tank after each rinse. Crush or break the empty container and bury it with at least 45 cm of cover and away from water supplies.

HOUSEFLY CONTROL:

CYGON 4-E controls houseflies for up to 6 weeks. Use a spray solution containing 25 mL of CYGON 4-E in 1 L of water. Repeat application should be made when necessary. Good sanitation is an essential part of any effective fly control program. In dairy barns, hog pens, calf barns, poultry houses

and other farm buildings: Apply a residual spray to the ceilings, walls, stanchions, etc. Thoroughly wet all fly resting areas to the point of runoff. 5-10 L of spray will cover 100 sq m. of surface. For localized fly control apply spot sprays with a knapsack of similar type sprayer to doorways, around windows, counters and other areas frequented by flies.

GENERAL OUTDOOR USE:

To control houseflies around homes, recreation areas, garbage cans, animal quarters, food processing plants, warehouses, loading docks and refuse areas, spray exposed surfaces such as walls, fences, refuse containers and garbage. Exposure of sprayed areas to weather, particularly sunshine reduces the duration of residual effects. Repeat applications as necessary.

NOTE:

Do not mix with whitewash or apply within 2 weeks of whitewashing. Do not use in homes.

OTHER USES:

CYGON 4-E can be used to control certain insects on specified fruits, vegetables, field crops, ornamental plants and trees. For additional information see the attached leaflet.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto. The buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

Ship and store between 5'C and 30'C.

*REGISTERED TRADEMARK - RALSTON PURINA COMPANY
RALSTON PURINA CANADA INC. REGISTERED USER
(R) REGISTERED TRADEMARK OF CYANAMID CANADA INC.

(LEAFLET)

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RALSTON PURINA CANADA INC.
LONGUEUIL, QUE J4H 2T2

GENERAL USES AND METHODS OF APPLICATION

CYGON 4-E is generally effective in controlling aphids, grasshoppers,
houseflies, leafhoppers, leaf miners, mites, scales, tarnished plantbugs and
thrips.

TAKE TIME
OBSERVE LABEL DIRECTIONS

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Wash thoroughly after handling and before eating, drinking and smoking.

Avoid contamination of food or feed products.

Keep away from heat, sparks and open flame. Do not expose to direct sunlight.

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Apply a residual spray to the ceilings, walls, stanchions, etc. Thoroughly wet all fly resting areas to the point of runoff. 5-10 L of spray will cover 100 sq m. of surface. For localized fly control apply spot sprays with a knapsack of similar type sprayer to doorways, around windows, counters and other areas frequented by flies.

General outdoor use:

To control houseflies around homes, recreation areas, garbage cans, animal quarters, food processing plants, warehouses, loading docks and refuse areas, spray exposed surfaces such as walls, fences, refuse containers and garbage. Exposure of sprayed areas to weather, particularly sunshine reduces the duration of residual effects. Repeat applications as necessary.

Notes:

Remove livestock and poultry from buildings when spraying.

Do not use in milk processing or milk storage rooms.

Do not contaminate feed, foodstuffs, feed troughs or drinking fountains.

Do not mix with whitewash or apply within 2 weeks of whitewashing.

Do not use in homes.

FLOWERING PLANTS
ORNAMENTAL SHRUBS AND TREES
GENERAL COMMENTS

1. CYGON 4-E is a true systemic insecticide. A systemic is absorbed into the system of the plant upon application and, as with all systemic materials, may in specific plants cause reactions which are neither predictable nor common to all members of the species.
2. FOR PROPER TIMING of treatments for the control of specific pests or ornamental plants, consult local agricultural authorities. In general, apply adequate spray for good coverage when pests appear or when damage is first observed, unless otherwise indicated. Do not overdose or overspray.

3. EXPERIENCE has shown when dealing with species that may be injured by foliar application, soil drenches are safer on those plants for which they are recommended. When using foliar sprays, do not apply during heat of the day or when temperatures are excessively high.
4. DO NOT USE on ornamental plants not listed. While CYGON 4-E may not always cause injury to species not listed, injury may occur to individual plants of in local areas.
5. WHEN IN DOUBT about plant safety it is advisable to spray a single branch or dip several leaves in the spray solution. A waiting period of three or four days will usually indicate if plant damage will result.
6. DO NOT SPRAY the following species unless you have tested single branches or leaves to ascertain safety:

American Elm	Mop-head Elm
Norway Maple	Mock Orange
Sunburst Locust	Morraine Locust

or other ornamentals not listed in this pamphlet.

7. There has been no report of damage by CYGON 4-E to any of the common evergreen species grown in Canada provided recommended rates have been followed.
8. SPILLAGE - If accidental spillage of CYGON 4-E should occur, scrub contaminated area immediately with a strong laundry soap solution or use household lye - detergents are not satisfactory for this purpose. Repeated scrubbing may be necessary on plain wood surfaces. Avoid spillage on all types of floor tile or linoleum.

NOTICE TO USER:

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For each of the vegetable crops apply the CYGON 4-E in sufficient water for good coverage. Repeat applications as necessary, except that label directions concerning interval before harvest must be observed.

VEGETABLE CROPS	INSECTS CONTROLLED	RATE OF CYGON 4-E PER		REMARKS
		10 L WATER	HECTARE	
Beans	Aphids, bean beetles, leafhoppers, leaf miners, lygus bugs, mites, tarnished plant bugs	7-10 mL	700-1000 mL	Do not feed or allow livestock to graze treated forage. Do not apply within 7 days of harvest.
Cole Crops: Broccoli Brussels sprouts Cabbage Cauliflower	Aphids	7-10 mL	700-1000 mL	Required interval before harvest: Brussels sprouts 21 days Broccoli, cabbage, cauliflower, 4 days
Leaf Vegetables: Beet greens, Kale, Lettuce, Spinach, Swiss chard, Turnip Greens	Aphids, leafhoppers	7 mL	700 mL	Required interval before harvest: Beet greens 12 days Kale, lettuce, spinach, Swiss chard, turnip greens 7 days

Peas	Aphids	2.5-4 mL	275-425 mL	May be applied by air or ground equipment. Do not feed or allow livestock to graze treated vines within 21 days after application. Do not apply within 3 days of harvest.
Peppers	Aphids, maggots	7-10 mL	700-1000 mL	Do not apply within 3 days of harvest.
Potatoes Tomatoes	Aphids, leafhoppers	5-10 mL	500-1100 mL	Consult local agricultural authorities for proper timing. Do not apply within 7 days of harvest.
Mushroom houses	Sciarid flies, phorid flies	120 mL		Spray all inside walls and paint the bed boards on the outside with the mixture. Apply after filling the beds with manure, but before spawning and casing. Do not spray on the manure.

FIELD CROPS Alfalfa Forage crops Pastures Waste areas	Aphids, young grasshoppers, leafhoppers, lygus bugs, plant bugs, reduction of alfalfa weevil larvae Adult or winged grasshoppers Sweet clover weevil		425 mL 850 mL 850-1100 mL	Use sufficient water for good coverage, using ground or aerial application equipment. Repeat only when necessary. Remove cattle before spraying. Do not apply during bloom. Do not graze or harvest for forage within the following times after application: <table border="0" data-bbox="1133 842 1507 1167"> <tr> <td>Rate of CYGON 4-E per ha</td> <td>Required Interval</td> </tr> <tr> <td>425 mL</td> <td>48 hours</td> </tr> <tr> <td>850 mL</td> <td>7 days</td> </tr> <tr> <td>850-1100 mL</td> <td>28 days</td> </tr> </table>	Rate of CYGON 4-E per ha	Required Interval	425 mL	48 hours	850 mL	7 days	850-1100 mL	28 days
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425 mL	48 hours											
850 mL	7 days											
850-1100 mL	28 days											
Alfalfa	Alfalfa blotch leafminer		550 mL	Apply once in sufficient water for good coverage (use in a minimum of 200 L water per ha). Do not harvest or graze within 2 days of application.								
FRUIT CROPS	INSECTS CONTROLLED	RATE OF CYGON 4-E PER			REMARKS							
		10 L WATER	1000 L WATER	HECTARE								

Apples Pears	Aphids, mites, apple maggot, pear psylla	12-5 mL	1-1 1/2 L		Apply when insects first appear, using sufficient water for good coverage. Repeat as necessary. For apple maggot, spray when adult flies first appear (usually July 10 to 15) and repeat after 10 to 14 days.
	Tarnished plant bugs	7 mL	625 mL		On apple, apply at pink and first cover, using about 4,000 L/ha. On pears, apply at pre-bloom.
		DO NOT SPRAY APPLES OR PEARS WITHIN FOURTEEN (14) DAYS OF HARVEST			
Peaches (non-bearing)	Tarnished plant bugs	5 mL	500 mL	1 3/4 L	Apply first spray at pink stage and repeat at shuck fall.
	Aphids, mites	10-15 mL	1-1 1/2 L		Spray when insects first appear and repeat at monthly intervals or as necessary using sufficient water for good coverage.

Strawberries	Tarnished plant bugs, aphids mites	12.5 mL	1 1/4 L	2 3/4 L	Apply first spray when first blooms appear and the second application 10 to 20 days later.
Strawberries (non-bearing)	Aphids, mites	10 mL	1 L	2 1/4 L	Spray when insects first appear and repeat at monthly intervals or as necessary using sufficient water for good coverage.
Cherries (sweet and sour)	Black and western cherry fruit fly maggots	7 mL	625 mL	4 1/4 L	Apply 5 days after the first adult fly has been trapped and repeat in 16 days if required. Do not spray within 15 days of harvest.

CAUTION: Forest Pest Control - birds and other wildlife in treated areas may be harmed. This product is toxic to bees. Restrict application to the period after dark when bees are inside the hives, or in early morning before the bees are foraging in the fields. Do not apply to such crops as alfalfa when in full bloom.

The uses listed below are foliar sprays unless otherwise indicated. (Outdoor plants only)

FLOWERING PLANTS	INSECTS CONTROLLED	RATE OF CYGON 4-E PER	
		10 L WATER	1000 L WATER

Azaleas	Lace bugs, leaf miners, mites, white flies	10 mL	1 L
Camellias	Aphids, mites, camellia scale	10 mL	1 L
		<p>Foliar spray: Apply 2 sprays 6 weeks apart from the first year followed by annual applications soon after first growth begins in the spring.</p> <p>Soil drench: Apply CYGON 4-E as a soil drench around the base of the plants in early spring at the rate of 60 mL/10 L of water per plant up to 2 m tall. Increase this rate proportionately for larger plants.</p>	
Carnations	Aphids, thrips, mites	10 mL	1 L
		<p>Soil drench: Apply as a soil drench at the rate of 125 mL per 100 sq m. of bed or bench (14 L/ha) in sufficient water for even distribution. Water in thoroughly after application.</p>	
Day Lilies	Aphids, Thrips	20 mL	2 L
Euonymus	Aphids, scale	20 mL	2 L
Gardenias	White flies	10 mL	1 L
Gerberas	Thrips	10 mL	1 L
Gladiolus	Aphids, thrips	10 mL	1 L
Iris	Aphids, Iris borer, thrips	20 mL	2 L
		<p>For borer control spray when new leaves are 12-15 cm tall.</p>	

Poinsettias (Outdoor plants)	Aphids, white flies, mites, mealy bugs	10 mL	1 L
Roses	Aphids, leafhoppers, mites, thrips	10 mL	1 L
		Apply thoroughly every 4 weeks during growing season.	
(Outdoor plants only)		RATE OF CYGON 4-E PER	
ORNAMENTAL SHRUBS AND TREES	INSECTS CONTROLLED	10 L WATER	1000 L WATER
Arborvitae	Aphids, bagworms, mites	20 mL	2 L
Birch	Aphids, leaf miners	5 mL	500 mL
		For leaf miners apply when leaves are expanded (about mid-May); repeat the last week in June.	
Boxwood	Mites, leaf miners, mealy bugs	10 mL	1 L
		For leaf miners apply in spring when leaf miner flies first appear or in early summer for control of larvae in the infested leaves.	
Cedar	Mites, leaf miners	20 mL	2 L For leaf miners apply in early May or late August.
Douglas Fir Seed Tree	Cone insects (cone or gall midge, cone moths, seed chalcid, scale midge)	1 L in 20 L water. Apply with mist blower	2.5 L in 100 L water. Apply as a wetting spray.
		Application should be made when cones are at or near the pendant stage. Complete coverage of the cones and foliage in the cone-bearing area of the tree is important for satisfactory results.	

Holly (English and American)	Mites, soft scale, leaf miners	10 mL	1 L
		For leaf miners apply in spring when leaf miner flies first appear or in early summer for the control of larvae in the infested leaves	
Hemlock	Mites, scale, spruce needle miner	10 mL	1 L
Juniper	Aphids, bagworms, midges, mites	20 mL	2 L
Lilac (Syringa spp.)	Leaf miners	12.5 mL	1 1/4 L
		Apply two sprays 6 weeks apart. Applications should be made as soon as any signs of the leaf miner appear or first application should be started in early June.	
Oak	Golden oak scale	20 mL	2 L
Pine (mungho, red, Scots)	Red and black-headed pine sawfly larvae	10 mL	1 L
	Aphids, bagworms, European pine shoot moth, Nantucket pine tip moth, Zimmerman pine moth	20 mL	2 L
	For pine shoot moths apply early in the spring and again in mid-June, thoroughly wetting branch tips.		
Sitka Spruce	Sitka-spruce weevil	2.5 L in 100 L	
		Thoroughly spray the terminal growth to the point of run-off at the time of egg laying (usually during the first half of May).	
Taxus	Mites, Fletcher scale, mealy bugs	20 mL	2 L
		For Fletcher scale spray at the end of June and again 10 days later when the crawlers are moving.	

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

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