

86.04.24

----- LABEL -----

SANEX

CYGON (R) 2E

INSECTICIDE

EMULSIFIABLE CONCENTRATE SYSTEMIC INSECTICIDE

Read attached leaflet for additional uses.

DOMESTIC

DANGER

POISON

Read label before using.

250 mL

REGISTRATION NO. 13526
PEST CONTROL PRODUCT ACT

GUARANTEE:
Dimethoate 23.4%

Manufactured by

SANEX INC.

2695 SLOUGH STREET, MISSISSAUGA, ONTARIO L4T 1G2

Branches Throughout North America

DIRECTIONS

SPRUCE BUDWORM: Protect your Spruce trees and Balsam Fir trees against the damage done by Spruce Budworm. Mix 3 mL of SANEX CYGON 2E per litre of water and spray adequately for thorough coverage early when new growth starts.

SPRAY TREATMENT - ORNAMENTALS AND ROSES: SANEX CYGON 2E is an excellent systemic insecticide for the control of aphids, leaf hoppers, leaf miners, etc...attacking ornamental plants. Apply at the rate of 3-6 mL/L of water. Wet foliage thoroughly. Check pamphlet enclosed for rates and ornamental species that may be sprayed with CYGON 2E.

PAINT ON TREATMENT - BIRCH TREES: For the control of aphids and leaf miners,

plant an 8-15 cm band of CYGON 2E directly from the bottle around the trunk as high up as convenient but below the first lateral branch. Do not use on trees with trunks less than 3 cm in diameter at base.

ROSES: For the control of aphids, leaf hoppers, mites and thrips paint a 3 cm band of CYGON 2E, taken directly from the bottle at the base of rose bushes. Paint only last year's wood. Do not paint new growth or buds. Apply as soon as leaf buds start opening. Repeat as needed.

HOUSEFLIES: For use as Residual Wall Sprays, Spot Sprays and General outside use. Apply a 1% residual spray or 50 mL of CYGON 2E in 1 litre of water. One litre of spray covers from 14 to 25 square metres of surface - gives up to 3 weeks control.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. VAPOURS HARMFUL, HARMFUL IF SWALLOWED. Concentrated material causes eye irritation. Avoid breathing vapour or spray mist. Use only with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid contamination of feed and foodstuffs. Do not use in home. Do not use, pour, spill or store near heat or open flame. Keep out of sun. Ship and store between 2'-32'C. Dispose of empty container with regular garbage. Do not reuse.

FIRST AID: If swallowed cause vomiting and get medical attention. If in eyes, flush with plenty of water for at least 15 minutes, get medical attention. If spilled on skin, wash thoroughly with soap and water.

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

ANTIDOTE: Give 2 to 4 mg of atropine sulphate intra-muscularly or intravenously immediately and every hour as required until pupils dilate. Pralidoxime Chloride (2-PAM PROTOPAM CHLORIDE) may be effective as an adjunct to atropine. Use according to label directions.

SPILLAGE: If accidental spillage of CYGON 2E should occur, scrub contaminated area immediately with strong laundry soap solution or use household lye; detergents are not satisfactory for this purpose. Repeated scrubblings may be necessary on wooden surfaces. Protect hands with rubber gloves while scrubbing. Avoid spilling on all types of floor tile and linoleum.

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.

(R) Registered Trademark of Cyanamid Canada Inc.

----- LEAFLET -----

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2695 Slough Street, Mississauga, Ontario L4T 1G2

Branches Throughout North America

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, inhaled or absorbed through skin.

Use only in adequately ventilated areas.

Avoid breathing vapour of spray mist and contact with skin, eyes or clothing.

Wash after use and before eating, drinking, or smoking.

Avoid contamination of food, feed and drinking water.

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

Highly toxic to birds, bees and other wildlife.

To avoid killing bees, spray plants in bloom only in the late evening or early morning while bees are not foraging.

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 1 to 2 mg of atropine sulphate intramuscularly or intravenously immediately and every hour as required until pupils dilate. Pralidoxime chloride (2-PAM: PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

FLOWERING PLANTS, ORNAMENTAL SHRUBS AND TREES:

CYGON (R) 2E is generally effective in controlling aphids, leafhoppers, leaf miners, mites, scales and thrips. Plant species on which CYGON (R) 2E may be used, and the insects controlled, are listed in this pamphlet. Do not use on plants which are not listed.

Foliar Applications - Proper timing of treatments is necessary for adequate insect control. Follow the recommendations in the accompanying table. When a recommendation is not given, in general the spray should be delayed until the pests appear or damage to plants is observed. Local extension authorities may be consulted concerning timing of treatments.

While CYGON (R) 2E may not always cause injury to species not listed, injury may occur to individual plants or in local areas. 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. Do not spray the following species unless individual plants have been tested for safety:

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

There has been no report of damage by CYGON (R) 2E to any of the common evergreen species grown in Canada provided recommended rates have been followed.

PAINT-ON TREATMENT

Birch Trees to control birch leaf miners - Paint undiluted CYGON (R) 2E, using the applicator, in a band on the bark of the tree. The chemical is absorbed into the plant and carried to the leaves. The band should be around the trunk below the lowest branch. The band location should be changed with each application. Do not treat birch trees with trunks less than 2.5 cm in diameter. For larger trees the width of the band should be equal to the thickness of the trunk at that location, up to a maximum of 15 cm.

The first application should be made in May when leaf bud tips appear green.

A second application should be made in late June in early season areas or early July in cooler areas. Do not make more than two treatments per season.

Newly transplanted birch trees may be injured. Use CYGON (R) 2E with care the year of transplanting. On certain clay soils a white chlorosis may appear between the veins of the leaves after treatment. This is temporary and soon disappears.

Lilacs to control leaf miners - Apply undiluted CYGON (R) 2E in a band 5 cm wide, approximately 30 cm above the ground, to each stem. The first application should be made when the first leaves appear. A second application should be made in late July.

Roses (outdoor plants) to control aphids, leafhoppers, mites and thrips - Paint a 2.5 cm band of undiluted CYGON (R) 2E using the applicator, to the bases of the rose stems. Paint only old wood as new growth may be injured. For best insect control apply the first treatment when leaf buds start to swell in the spring and repeat the application as necessary.

Note re: paint-on treatments:

See the foliar application section for insect control on birch, lilac or rose with foliar sprays. Do not paint undiluted CYGON (R) 2E to plant species other than the three listed as severe injury can result.

HOUSEFLIES (Residual Sprays)

CYGON (R) 2E controls houseflies for up to 6 weeks. Use a spray solution containing 50 mL of CYGON (R) 2E per litre of water. Repeat applications should be made when necessary. Good sanitation is an essential part of any effective fly control program.

Use to control houseflies outside homes, and in recreation areas, garbage cans, animal quarters, and refuse areas. Spray exposed surfaces such as walls, fences, refuse containers and garbage cans. 5 litres of spray will cover 100 m² of surface.

Remove animals while spraying their quarters. Do not contaminate drinking water, feed or litter. Do not use inside homes. Do not use as space spray.

VEGETABLE GARDENS AND FRUIT:

VEGETABLES - Spray when insects are first noticed and repeat as necessary. Do not feed treated crop to livestock. Do not spray when temperature is excessively high as injury to plants may occur. Observe limitations concerning safe interval between treatment time and harvest.

Use CYGON 2E at the rate of 1-2 mL/litre of spray on beans, broccoli, Brussels sprouts, cabbage, cauliflower, pepper, potato and tomato: 1 mL/litre of spray on beet greens, kale, lettuce, spinach, Swiss chard, and turnip greens: 0.5-0.75 mL/litre of spray on peas. Apply sufficient spray to ensure coverage (approximately 10 L/100 m²).

VEGETABLE CROP	INSECTS CONTROLLED	LAST SPRAY BEFORE HARVEST
Beans	Aphids, bean beetles, leafhoppers, leaf miners, lygus bugs, mites, tarnished plant bugs	7 days
Beet greens	Aphids, leafhoppers	12 days
Broccoli	Aphids	4 days
Brussels sprouts	Aphids	21 days
Cabbage	Aphids	4 days
Cauliflower	Aphids	4 days
Kale	Aphids, leafhoppers	7 days
Lettuce	Aphids, leafhoppers	7 days
Peas	Aphids	3 days
Peppers	Aphids, maggots	3 days
Potatoes	Aphids, leafhoppers	7 days
Spinach	Aphids, leafhoppers	7 days
Swiss chard	Aphids, leafhoppers	7 days
Tomatoes	Aphids, leafhoppers	7 days
Turnip greens	Aphids, leafhoppers	7 days

FRUIT - Unless otherwise specified, apply sprays when insects appear and repeat as necessary. Apply sufficient spray to ensure coverage.

FRUIT CROP	INSECTS CONTROLLED	TIMING OF SPRAY	RATE OF CYGON 2E mL/LITRE WATER
Apples, pears	Aphids, apple maggot, pear psylla, mites, tarnished plant bug	For apple maggot, spray when adult flies first appear (usually July 10 to 15) and repeat after 10 to 14 days. For tarnished plant bug control on apple apply at pink and first cover; on pear apply before bloom. DO NOT SPRAY APPLES OR PEARS WITHIN (14) DAYS OF HARVEST.	2.0-2.5 2.0-3.5 1.25

Cherries (sour, sweet)	Black cherry fruit fly, western cherry fruit fly	Apply 5 days after first fly has been trapped and repeat after 16 days if necessary. Do not spray cherries within fifteen (15) days of harvest.	1.0-1.25
Peaches (non-bearing)	Tarnished plant bug,	Apply at pink stage and again at shuck fall.	1.0
	Aphids, mites		1.5-3.5
Strawberries	Tarnished plant bug, Aphids, mites	On strawberries to be harvested apply first spray when blooms appear and a second 10 to 12 days later. Spray as necessary on non-bearing strawberries.	2.5
			1.25-2.25

ORNAMENTAL SHRUBS AND TREES

Use adequate spray for good coverage.

Do not spray when the temperature is excessively high.

ORNAMENTAL SHRUBS AND TREES	INSECTS CONTROLLED	mL OF CYGON 2E PER LITRE OF WATER	
Arborvitae	Aphids, Bagworms, Mites	4.0	
Birch	Aphids, Leaf miners	1.0	For leaf miners apply when leaves are expanded (about mid-May), repeat the last week in June. Application should be made before or at least as soon as first damage appears.
Boxwood	Mites, Leaf miners, Mealy bugs	2.0	For leaf miners apply in spring when leaf miner flies first appear and repeat in early summer for control of larvae in the infested leaves.
Cedar	Mites, Leaf miners	4.0	For leaf miners spray in early May or late August.
Holly (English and American)	Mites, Soft scale, Leaf miners	2.0	For leaf miners apply in spring when leaf miner flies first appear and repeat in early summer for the control of larvae in the infested leaves.
Hemlock	Mites, scale, spruce needle miner	2.0	Make application as soon as larvae hatch.

Juniper	Aphids, Bagworms, Midges, Mites	4.0	
Lilac (Syringa spp.)	Leaf miners	2.0	Apply two sprays 6 weeks apart. Application 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	4.0	
Pine (mugho, red, Scots)	Red and black-headed pine sawfly larvae	2.0	
	Aphids, bagworms, European pine shoot moth, Nantucket pine tip moth, Zimmerman pine moth	4.0	For European pine shoot moths apply early in the spring and again in mid-June, thoroughly wetting branch tips.
Sitka Spruce	Sitka-Spruce weevil	25 mL	Spray the terminal growth to the point of run-off at the time of egg-laying (usually during the first half of May).
Spruce and Balsam Fir	Spruce budworm	2.0	Apply when new growth starts.
Taxus (Yew)	Mites, Fletcher Scale Mealy Bugs	4.0	For Fletcher scale spray at the end of June and again 10 days later when the crawlers are moving.

Use adequate spray for good coverage of plants, but do not overdose or overspray. To avoid injury to plants, do not spray when the temperature is excessively high. The uses listed below are foliar sprays unless otherwise indicated and must not be used on plants growing indoors.

FLOWERING PLANTS (Outdoor plants only)	INSECTS CONTROLLED	mL OF CYGON 2E PER LITRE OF WATER
Azaleas	Lace bugs, leaf miners, mites, white flies	2.0

Camellias	Aphids, mites, camellia scale	2.0	Foliar spray: Apply 2 sprays 6 weeks apart from the first year followed by annual applications soon after first growth begins in the spring. Soil drench: Apply as a soil drench around the base of the plants in early spring at the rate of 12 L per litre of water per plant up to 2 m tall. Increase this rate proportionately for larger plants.
Carnations	Aphids, thrips, mites	2.0	Soil drench: Apply as a soil drench at the rate of 250 mL per 100 m ² of bed or bench in sufficient water for even distribution. Water in thoroughly after application.
Day Lilies	Aphids, Thrips	4.0	
Euonymus	Aphids, scale	4.0	
Gardenias	White flies, scale	2.0	
Gerberas	Thrips	2.0	
Gladiolus	Aphids, thrips	2.0	
Iris	Aphids, Iris borer, thrips	4.0	For borer control spray when new leaves are 12 to 15 cm tall.
Poinsettias (Outdoor plants)	Aphids, white flies, mites, mealy bugs	2.0	
Roses	Aphids, leafhoppers, mites, thrips	2.0	Apply as required (approximately every 4 weeks during growing season).

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