

03-MAY-2002

(CARTON)

C-I-L[®]
CYGON[®] 2E
Leafminer Killer
Emulsifiable Concentrate

Systemic

FREE
Measuring Cup Enclosed

DOMESTIC

REG. NO. 10337 P.C.P. ACT

GUARANTEE: Dimethoate 240 g/L

DANGER



POISON

Ship and store between 5°C and 30°C

READ THE LABEL AND BROCHURE BEFORE USING
KEEP OUT OF REACH OF CHILDREN

250 mL

Nu-Gro IP Inc.
10 Craig St.,
Brantford, ON
N3R 7J1

SEE ENCLOSED BROCHURE FOR COMPLETE DIRECTIONS. C-I-L[®] Leafminer Killer is a systemic insecticide effective against Birch Leafminer and other common insects on trees, vegetables, fruit, shrubs and ornamentals.

SOIL DRENCH TREATMENT: For leafminer control on Birch, refer to enclosed brochure for complete instructions for soil drench treatment.

SPRAY TREATMENT: FOR FLOWERING PLANTS, SHRUBS AND TREES, VEGETABLE GARDENS AND FRUIT TREES: CYGON[®] 2E is an excellent systemic insecticide for the control of aphids, leafhoppers, leafminers, and certain other insects. Refer to enclosed brochure for rates and ornamental species that may be sprayed with CYGON[®] 2E.

PAINT-ON TREATMENT: For control of aphids and leafminers on Birch; leafminers on Lilac; aphids, leafminers, mites and thrips on Rose: refer to the complete use instructions on the enclosed brochure for paint-on treatment.

RESIDUAL SPRAYS FOR HOUSEFLIES: For housefly control for up to 6 weeks, refer to the enclosed brochure for complete use instructions for residual wall sprays, spot sprays and general outdoor use.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. KEEP CHILDREN AND PETS AWAY FROM TREATED AREA DURING APPLICATION AND UNTIL DRY.

Hazardous if swallowed, inhaled or absorbed through the skin. Concentrated material causes eye irritation. Avoid inhaling vapour or spray mist. Avoid contact with eyes, skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling and before eating, drinking or smoking. Avoid contamination of food, feed, utensils, drinking water or any body of water. Do not use in home. Do not use, pour, spill or store near heat, sparks or open flame. **KEEP OUT OF SUN.** Ship and store between 5°C to 30°C. 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: CALL A PHYSICIAN OR POISON CONTROL CENTRE AT ONCE IN ALL CASES OF SUSPECTED POISONING. **Product contains petroleum distillates.** **If swallowed,** DO NOT induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person. **If in eyes,** flush with water for at least 15 minutes and seek medical attention. **If on skin,** wash thoroughly with soap and water. Take container, label or product name and P.C.P. Registration Number with you when seeking medical attention.

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

DECONTAMINATION: If accidentally spilled, scrub area immediately with strong laundry soap or use household lye. Detergents are not satisfactory for this purpose. Repeated scrubbing are necessary on plain wood surfaces.

DISPOSAL: Triple rinse container into sprayer and dispose of empty container and measuring cup with household garbage. DO NOT REUSE CONTAINER.

For additional product information or in case of emergency, spills or fire, call toll-free 1-800-268-2806.

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www.cil.nu-gro.com

C-I-L® Oval® ICI Canada Inc., CYGON® Cheminova Inc. / Lic. Nu-Gro

(BOTTLE LABEL)

C-I-L[®]
CYGON[®] 2-E
LEAFMINER KILLER
EMULSIFIABLE CONCENTRATE

DOMESTIC

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(PAMPHLET)

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Made in CANADA

DIRECTIONS FOR USE

C-I-L[®] Leafminer Killer is a systemic insecticide effective against Birch Leafminer and other common insects on trees, vegetables, fruit, shrubs and ornamentals.

PAINT-ON TREATMENT:

BIRCH TREES (TO CONTROL BIRCH LEAFMINERS) – Paint undiluted C-I-L[®] Leafminer Killer using the applicator, in a band on the bark of the tree. The band should be around the trunk below the lowest branch. The band's location should change at each application. The width of the band should be equal to the thickness of the trunk at that location up to a maximum of 15 cm in diameter. Do not treat birch trees with trunks less than 3 cm in diameter. Apply in May when leaf bud tips appear green and, if required, again 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. On certain clay soils a white chlorosis may temporarily appear between the veins of the leaves after treatment.

LILACS (TO CONTROL LEAFMINERS) – Apply undiluted in a band 8 cm wide, approximately 30 cm above ground, to each stem. Apply when the first leaves appear and again in late July.

OUTDOOR ROSE PLANTS (TO CONTROL APHIDS, LEAFHOPPERS, MITES AND THRIPS) – Using the applicator paint an undiluted band, 3 cm wide, to the base of the rose stems. Paint only old wood as new growth may be injured. For best insect control apply when leaf buds start to swell in the spring. Repeat as necessary.

NOTE: PAINT-ON TREATMENTS: See the foliar application section for insect control on birch. Lilac or rose with foliar sprays. Do not paint undiluted C-I-L[®] Leafminer Killer on plant species other than the three listed or severe injury can result.

SOIL DRENCH TREATMENT (FOR FULL SEASON CONTROL):

BIRCH TREES (TO CONTROL BIRCH LEAFMINERS) – Make several small holes in the soil with a sharp instrument within the dripline of the tree. Use 25 mL for each cm of trunk diameter measured at ground level. Pour the undiluted amount evenly into each hole. Close the holes with earth and thoroughly water the soil until saturated (about 15 minutes). Apply in May when leaves start to open. One soil drench treatment should control leafminers for the complete season. Do not make more than one soil treatment per year. Soil drenches may not be effective on newly transplanted birches when the root system is not well established. **SOME HYBRID VARIETIES** (e.g. cutleaf and silver birch) may be damaged by excessive amounts of CYGON[®] 2E. Therefore, apply no more than the recommended dosage.

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, the spray should be delayed until the pest or damage appears. Local extension authorities may be consulted concerning timing of treatments. While CYGON[®] 2E may not always cause injury to species not listed, injury may occur to individual plants or local areas. When in doubt about plant safety, spray a single branch or dip several leaves in the spray solution and look for damage in three or four days. Do not spray the following species unless individual plants have been tested for safety:

American Elm
Norway Maple
Morraine Locust

Mop-head Elm
Mock Orange
Sunburst Locust

There has been no report of damage by C-I-L[®] Leafminer Killer to any of the common evergreen species grown in Canada provided recommended rates have been followed.

RESIDUAL SPRAYS FOR HOUSEFLIES:

CYGON[®] 2E controls houseflies for up to 6 weeks. Use a spray solution containing 50 mL (10 teaspoonfuls) of CYGON[®] 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 home and in recreation areas, garbage cans, animal quarters and refuse areas. Spray exposed surfaces such as walls, fences, refuse containers and garbage cans. Five to six litres of spray will cover 100 square metres of surface.

Remove animals while spraying their quarters. Do not allow humans or animals to contact sprayed surfaces until dry. Do not contaminate drinking water, feed or litter. Do not use inside homes. Do not use as a space spray.

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(5 mL = 1 teaspoonful)

(15 mL = 1 tablespoonful)

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 intervals between treatment time and harvest. Do not apply more than 2 applications per season. Use C-I-L[®] Leafminer Killer at the rate of 1 to 2 mL per litre of spray on beans, broccoli, Brussels sprouts, cabbage, cauliflower, pepper, potato and tomato: 1 mL per litre of spray on beet greens, kale, lettuce, spinach, Swiss chard, and turnip greens: 0.5 to 0.75 mL per litre of spray on peas. Apply sufficient spray to ensure coverage (approximately 10 L per 100 m²).

VEGETABLE CROP	INSECTS CONTROLLED	LAST SPRAY BEFORE HARVEST
Beans	Aphids, bean beetles, leafhoppers, leafminers, lygus bugs, mites, tarnished plant bugs	7 days
Beet greens	Aphids, leafhoppers, grasshoppers	12 days
Broccoli	Aphids, grasshoppers	4 days
Brussels sprouts	Aphids, grasshoppers	21 days
Cabbage	Aphids, grasshoppers	4 days
Cauliflower	Aphids, grasshoppers	4 days
Kale	Aphids, leafhoppers, grasshoppers	7 days
Lettuce	Aphids, leafhoppers, grasshoppers	7 days
Peas	Aphids, grasshoppers	3 days
Peppers	Aphids, maggots, grasshoppers	3 days
Potatoes	Aphids, leafhoppers, grasshoppers	7 days
Spinach	Aphids, leafhoppers, grasshoppers	7 days
Swiss chard	Aphids, leafhoppers, grasshoppers	7 days
Tomatoes	Aphids, leafhoppers, grasshoppers	7 days
Turnip greens	Aphids, leafhoppers, grasshoppers	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 C-I-L[®] LEAFMINER KILLER (mL per L 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 apples apply at pink and first cover; on pears apply before bloom. DO NOT SPRAY APPLES OR PEARS WITHIN 14 DAYS OF HARVEST. Maximum of 2 applications per season.	2 to 2.5 2 to 3.5 1.25
Cherries (sour, sweet)	Black cherry fruit fly, western cherry fruit fly	Apply no later than 6 days after the first adult fly is trapped. On sweet cherries, apply once only prior to harvest. On sours, repeat after 14 days if necessary, but do not apply more than two sprays per season. Do not spray within 21 days of harvest of sweet and sour cherries.	1 to 1.25
Peaches (non-bearing)	Tarnished plant bug	Apply at pink stage and again at shuck fall.	1
	Aphids, mites	Apply when growth starts. Maximum of 2 applications per season.	1.25 to 3.5
Strawberries	Tarnished plant bug	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. Preharvest interval: 7 days.	2.5
	Aphids, mites		1.25 to 2.5 (10 L of spray should cover approximately 100 m ²)

(5 mL = 1 teaspoonful)

(15 mL = 1 tablespoonful)

ORNAMENTAL SHRUBS AND TREES		
<ul style="list-style-type: none">• Use adequate spray for good coverage.• Do not spray when the temperature is excessively high.• Do not use on newly-transplanted stock.		
<ul style="list-style-type: none">• Unless otherwise specified, apply sprays when insects appear and repeat as necessary.		
ORNAMENTAL SHRUBS AND TREES	INSECTS CONTROLLED	mL of C-I-L® LEAFMINER KILLER PER LITRE of WATER
Arborvitae	Aphids, bagworms, mites	4
Birch	Aphids, leafminers	1 For leafminers apply when leaves have just fully 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, leafminers, mealy bugs	2 For leafminers apply in spring when leafminer flies first appear and repeat in early summer for control of larvae in the infested leaves.
Cedar	Mites, leafminers	4 For leafminers spray in early May or late August.
Holly (English and American)	Mites, soft scale, leafminers	2 For leafminers apply in spring when leafminer flies first appear and repeat in early summer for the control of larvae in the infested leaves.
Hemlock	Mites, scale insects, spruce needle miner	2 Make application as soon as larvae hatch.
Juniper	Aphids, bagworms, midges, mites, scale insects	4 Apply in early June or when scales noticed. Thoroughly spray interior and exterior of the shrub.
Lilac (<i>Syringa spp.</i>)	Leafminers	2 Apply two sprays 6 weeks apart. Application should be made as soon as any signs of the leafminer appear, or first application should be started in early June.
Oak	Golden oak scale	4
Pine (mugho, red Scots)	Red and black-headed pine sawfly larvae	2
	Aphids, bagworms, European pine shoot moth, Nantucket pine tip moth, Zimmerman pine moth	4 For European pine shoot moths apply early in the spring and again in mid-June and then 10 days later thoroughly wetting branch tips.
Sitka Spruce	Sitka-spruce weevil	25 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 Apply when new growth starts, thoroughly wetting all branches.

Taxus (Yew)	Mites, Fletcher scale, mealy bugs	4	For Fletcher scale spray at the end of June and again 10 days later when the crawlers are moving.
<p>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.</p>			
FLOWERING PLANTS (Out-door only)	INSECTS CONTROLLED	mL of C-I-L® LEAFMINER KILLER PER LITRE of WATER	
Azaleas	Lace bugs, mites, leafminers, white flies	2	
Camellias	Aphids, mites, camellia scale	2	Foliar Spray: Apply 2 sprays 6 weeks apart 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 plants in early spring at the rate of 12 mL per litre of water per plant up to 2 m tall. Increase this rate proportionately for larger plants.
Carnations	Aphids, thrips, mites	2	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	
Euonymus	Aphids, scale insects	4	
Gardenias	White flies, scale insects	2	
Gerberas	Thrips	2	
Gladiolus	Aphids, thrips	2	
Iris	Aphids, iris borer, thrips	4	For borer control, spray when new leaves are 12 to 15 cm tall.
Poinsettias	Aphids, white flies, mites, mealy bugs	2	
Roses	Aphids, leafhoppers, mites, thrips	2	Apply as required (approximately every 4 weeks during growing season).

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