

TECHNICAL INFORMATION BULLETIN

OVERVIEW

PyGanic® Crop Protection EC.1.4 II offers immediate insect control for organic production. *PyGanic* is an organically compliant, broad-spectrum, contact insecticide that delivers quick knockdown and kill of crop-damaging insects.

METHOD OF APPLICATION

- Conventional hydraulic sprayers
- Crack and crevice treatments
- Compressed air sprayers
- Irrigation systems (chemigation)
- By air or by ground

PRODUCT, FORMULATION, PACKAGING AND COMPATIBILITY

Signal Word: Caution

Packaging: Quarts (6 per case), Gallons (4 per case)

EPA Registration Number: 1021-1771

Food Handling: Not for use in food handling areas

Stability of Undiluted Product: Stable

Stability of Diluted Product: Agitation recommended; not required. Mix only enough for immediate use.

IDENTITY, PHYSICAL AND CHEMICAL PROPERTIES

Common Name: Pyrethrins

Appearance: Clear, amber-brown colored liquid

Odor: Mild, sweet odor

Active Ingredients: Pyrethrins

Flammability: Not classified as flammable or combustible by OSHA

Mode of Action: Sodium channel modulator – disrupts insects' nervous systems

Class of Chemistry: Pyrethrins

Respiration Required: None

Mix or Dilute: Water only

Activity: Quick knockdown, contact kill and flushes insects from hiding

Shelf Life: 1 year in original commercial packaging stored at room temperature

USE AREAS

Growing Crops Outdoors and in Greenhouses

- *PyGanic* may be used on most crops because its active ingredients are exempt from tolerances when applied to growing crops
- Ornamental plants grown indoors or outdoors



BEST PRACTICES FOR USING *PyGanic* CROP PROTECTION EC 1.4 II

Buffer the pH of the *PyGanic* spray solution to 5.5 - 7.0.

- Application of the spray solution with a pH outside of this range may result in poor performance on target pests.

***PyGanic* is a contact insecticide – good coverage is key.**

- The amount of water used as a carrier has to be sufficient to achieve good coverage and contact target insects.

***PyGanic* may be applied in conjunction with a spreader or wetting agent.**

- While *PyGanic* should be compatible with most products, conducting a small-scale test to ensure the lack of phytotoxicity of the combination is recommended.

Consider application in early morning, late evening or during the night.

- Reduced UV exposure and lower temperatures will increase performance and reduce impact on pollinators.

For most situations, start at the “mid” application rate for *PyGanic*.

- In general, using *PyGanic* at the rate of 32 fl oz/A provides excellent knockdown and kill of insects. Conditions under which increasing the rate used per acre are recommended:
 - Extremely high insect populations
 - When the insect population is dominated by late- stage immatures or adults

Tank mix *PyGanic* with other products.

- *PyGanic* adds quick knockdown and kill, broad-spectrum control and resistance management benefits to other crop protection products such as Bts, azadirachtin, spinosad and neem oils.

Carefully monitor insect populations and apply when insects are early in their life stage.

- Monitor your crops for the first appearance of insects and treat the insects during the early stages of colonization.
- Apply when the target insects are active to increase the direct contact during the early stages of colonization.

Remove beneficial insects or apply when beneficial insects are not present.

KEY INSECTS CONTROLLED

ants	diamondback moth larvae	hornets
aphids	eastern tent caterpillar	hornworm
apple maggots	elm leaf beetle	imported cabbageworm
armyworms	European corn borer	Indian meal moth
artichoke plume moth	European pine tip moth	Japanese beetle
asparagus beetle	fall webworm	katydids
bagworm	fire ants	lace bugs
bean beetles	firebrats	leafhopper
beetles	fireworms	leafrollers
blister beetles	flea beetles	leaftiers
boll weevil	flies	loopers
cabbage looper	forest tent caterpillar	lygus
cankerworms	fungus gnats	mealy bugs
carrot weevil	fruitflies	Mediterranean flour moth
caterpillars	fruittree leafroller	Mexican bean beetle
clover mite	glassy winged sharpshooter	millipedes
clover weevil	grape leafhopper	mushroom flies
codling moth	grapeleaf skeletonizer	navel orangeworm
Colorado potato beetles	green fruit worm	onion maggot
crane flies	green peach aphids	pear psylla
crickets	greenhouse thrips	potato leafhopper
cross-striped cabbageworm	gypsy moth (adults & larvae)	psyllids
cucumber beetles	harlequin bug	rice weevil
darkling beetles (lesser meal worm)	heliolithis sp.	saw-tooth grain beetle

KEY INSECTS CONTROLLED (CONT.)

scale
stink bugs
spiders
tarnished plant bug

thrips
tomato hornworm
twelve spotted cucumber beetle
vinegar flies

wasps
webworms
whiteflies
yellow jackets



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PyGanic is NOP compliant and OMRI listed for organic production.

