

5

V. I. P.

LIQUID SOIL FUMIGANT

FOR CONTROL OF WEEDS, NEMATODES, SYMBIOTICS AND MANY SOIL-BORNE PLANT DISEASES

CONTROLS PESTS OF	CONTROLS THESE GROWING WEEDS AND GERMINATING WEEDS	CONTROLS SOIL-BORNE DISEASES SUCH AS
Turf Ornamentals Food and Fiber Crops Plant Beds of Tobacco Sweet Potatoes Cabbage Tomatoes	Annual Bluegrass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarters, Pigweed (Careless-wood), Watergrass, (Barnyardgrass), Johnsongrass, Nutgrass (Nutsedge), Wild Morningglory, Purslane.	Rhizoctonia, Pythium, Fusarium, Phytophthora, Verticillium, Sclerotinia, Clubroot in crucifers, Spread of Oak Root and Dutch Elm diseases by root grafts can be slowed or prevented.

ACTIVE INGREDIENT:	
SODIUM METHYL DITHIOCARBAMATE (ANHYDROUS)	32.7%
INERT INGREDIENTS:	<u>63.7%</u>
TOTAL	100%

EPA REG. NO. _____

NET CONTENT _____

CAUTION: KEEP OUT OF REACH OF CHILDREN

HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF EYES, NOSE, THROAT AND SKIN. AVOID INHALATION OF SPRAY MIST. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. IN CASE OF CONTACT, FLUSH WITH PLENTY OF WATER. FOR EYES - GET MEDICAL ATTENTION.

KEEP THIS PRODUCT AWAY FROM DOMESTIC ANIMALS AND FOODSTUFFS.

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2

THIS PRODUCT IS TOXIC TO FISH, BIRDS, AND OTHER WILDLIFE. KEEP OUT OF LAKES, STREAMS, OR PONDS. DO NOT APPLY WHERE RUNOFF IS LIKELY TO OCCUR. DO NOT APPLY WHEN WEATHER CONDITIONS FAVOR DRIFT FROM AREAS TREATED. DO NOT CONTAMINATE WATER BY CLEANING OR EQUIPMENT, OR DISPOSAL OF WASTE. APPLY THIS PRODUCT ONLY AS SPECIFIED ON THIS LABEL.

DO NOT REUSE EMPTY CONTAINER. DESTROY EMPTY CONTAINER BY PERFORATING OR CRUSHING AND BURYING IN A SAFE PLACE.

PRODUCT INFORMATION

V.I.P. is a water soluble liquid. When applied to properly prepared soil, the liquid is converted into a gaseous fumigant. After sufficient interval of time, the gas dissipates leaving the soil ready for planting. V.I.P. is recommended for the control of the following soil-borne pests that attack ornamental, food and fibre crops: Weeds and germinating weed seeds (annual bluegrass, barnyardgrass, chickweed, dandelion, ragweed, henbit, lambsquarters, *Amaranthus* sp. (pigweed, careless weed) watergrass, Johnsongrass, nutgrass, wild morningglory and purslane) nematodes, symphylids (garden centipede); and soil-borne diseases (Rhizoctonia, Pythium, Phytophthora, verticillium, Sclerotinia, Oak root fungus and club root of crucifers).

USE PRECAUTIONS

Keep children and pets out of treated area. Keep off desirable lawns and plants. Do not apply within 3 feet of the drip line of desirable plants, shrubs or trees. Do not use in confined areas without adequate ventilation OR where fumes may enter nearby houses containing growing plants. Do not use in greenhouses where desirable plants are present. Keep container tightly closed when not in use. Do not store near feed or food.

DIRECTIONS FOR USE

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Before applying V.I.P. always cultivate thoroughly area to be treated, breaking up clods and loosening soil deeply and thoroughly. A week before treatment, moisten soil after cultivation to the desired depth; sprinkle or flood irrigate. This step is essential for all methods of use. Immediately before application, cultivate lightly if the soil has crusted.

To prevent loss from evaporation, use only at times when air temperature is moderate and there is little wind movement. Soil temperature must be in the range of 60°-90° F. at a 3 inch depth. For other conditions, see section, "Cultivation & Planting After Application". Do not apply to the soil surface, when the sprinkler method, when air temperature is over 90° F. or when low humidity or high winds would cause loss of V.I.P. before

BEST DOCUMENT AVAILABLE

PAGE -3-

it can be drenched into the soil with additional water. Unpleasant during treatment, apply some water to seal soil where spray should be retained to give maximum

fumes become available to the plant material.

The activity of V.I.P. is increased by the use of a tarp (or fabric) spread loosely over the treated area and its removal by wind. Keep covered for a minimum period of 10 days after treatment until the area is death of 2 inch soil. Do not seed earlier than 21 days after application when tarping method is used.

lastic, paper to prevent tears. Even operate the when tarping

USE PROMPTLY AFTER MIXING WITH WATER. DO NOT ALLOW SOLUTION TO STAND. Flush all equipment with water after each day's use. Assemble valves and clean carefully.

USES, APPLICATION METHODS & NOTES

FOR SHALLOW ROOTS IN WEDGED BEDS, FLINT BEDS, LAWNS AND

LIMITED AREAS:

SPRINKLING CAN METHOD: Place 1 pt. V.I.P. (1½ pt. on heavy soils or for deep-rooted weeds) in a sprinkling can, fill with water, and sprinkle uniformly over 50 sq. ft. of well-prepared soil. Sprinkle immediately with water until soil is sealed, or tarp for 48 hours.

WATER PROPORTIONER METHOD: Add 1 qt. V.I.P. to 2 qt. water in a bucket or other container and apply, using these proportions, an area of 100 sq. ft. Sprinkle with water until soil is sealed, or tarp for 48 hours.

SOIL INJECTION: Space injection shanks 5 in. apart and inject V.I.P. 4 in. into well prepared soil. Follow immediately with a roller to smooth and compact the soil surface. Light watering or tarp after rolling helps prevent gas escape. For seedbeds a dosage of 75 to 100 gal. per acre (1½ pt. to 2 pt. per 100 sq. ft.) is recommended.

ROTARY TILLER: Spray or sprinkle diluted V.I.P. immediately in front of tiller. Use 1 qt. V.I.P. in 2½ gal. water per each 100 sq. ft. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling will help prevent gas escape.

FIELD APPLICATION-WHERE ENTIRE AREA IS BEING TREATED:

SOIL INJECTION: Space thin injection shanks 5 in. apart and inject V.I.P. 4 in. deep into well prepared soil. Follow immediately with a roller to smooth and compact surface. Light watering or a tarp after rolling helps prevent gas escape. For field use, 40 to 100 gal. V.I.P. per acre is recommended.

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PAGE -4-

7

SPRINKLER SYSTEM: Use only those sprinkler systems which give large water droplets to prevent evaporation loss. Use 75 to 100 gal. V.I.P. per acre. For control of shallow pests (top 1 ft. or less of soil), run sprinkler 7 to 10 min. in row 10 to 20 min. Inject into the sprinkler system all V.I.P. needed for the area covered. On very light soils keep surface moist by sprinkling for 2 or 3 days. For control of pests deeper than 12 in. in the soil, divide V.I.P. into 3 or more equal parts and apply at interval during the sprinkling period.

CHECK OR FLOOD IRRIGATION: Meter V.I.P. at a steady rate into water during irrigation. Use 50 to 100 gal. V.I.P. per acre, depending upon the kind of pest and depth desired, in 3 to 15 inches of water per acre.

FIELD APPLICATION TO BEDS OR ROWS:

SOIL INJECTION: V.I.P. may be injected into pre-formed plant beds following the directions given above under soil injection. If a wider treated band is desired, space 2 or more shanks at intervals of 5 in. to cover the desired treating width. Roll immediately.

SOIL COVERING METHODS: (Bed-over methods), V.I.P. may be sprayed or dripped onto the soil immediately ahead of bed-shaping equipment. Cover the V.I.P. with soil to a depth of 3 to 6 inches. The soil should be rolled and compacted immediately. The recommended rate of V.I.P. is 50 to 100 gal. per acre, approximately equivalent to 1 to 2 pints per 100 ft. of 12-inch row.

TREATMENT OF TREE REPLANT SITES: After removing dead or diseased tree and as much of the root system as possible, make a shallow basin over the planting site. Add V.I.P. to the stream of water while filling the basin. Use 1 qt. V.I.P. per 100 sq. ft. in sufficient water (depending on soil type) to penetrate at least 6 ft. For control of oak root fungus, use a basin at least 20 x 20 sq. ft. Increase dosage to 2 qt. V.I.P. per 100 sq. ft. in sufficient water to penetrate to the depth of root system. If water is tanked to the planting site, add V.I.P. to the water and mix before filling basin.

BEST DOCUMENT AVAILABLE

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BEST DOCUMENT AVAILABLE

PAGE - 1 -

TREATMENT OF SETTING SOIL:

A. SPRINKLE METHOD:

1. Spread soil in a smooth layer 4 inches high on concrete or on pre-treated soil.
2. Sprinkle V.I.P. at rate of 1 pint in 5 gallons of water per 100 sq. ft. of surface area.
3. Layers can be treated one on top of another.
4. Sprinkle top layer with sufficient additional water to seal the surface, or cover with tarp (plastic, kraft paper, etc.).

B. CEMENT MIXER:

1. Add V.I.P. to soil mix at rate of 1 fl. oz. V.I.P. per 2 cu. ft. of soil, in cement or similar mixer. Mix thoroughly.
2. After soil is treated and piled, sprinkle water over entire surface to seal in gas, or, cover with tarp (plastic, kraft paper, etc.).

C. SHREDDER:

1. Dilute V.I.P. in sufficient water to obtain even distribution. As soil is injected from shredder, spray uniformly on soil stream at rate of 1 fl. oz. V.I.P. per 2 cu. ft. of soil.
2. After all soil is treated and piled, apply light water seal to entire surface or cover with tarp.

D. BACCO PLANT BEDS: Full applications are recommended wherever possible. Read and follow DIRECTIONS FOR USE carefully. Treatment in the South should generally be made before November 30.

- A. TARP METHOD: Prepare the bed 5 to 7 days before application to insure best conditions for weed seed germination and fumigant action of V.I.P. The bed should be free of clods, level and in good tilth. Apply 1 to 1½ gal. of V.I.P. in a minimum of 40 gal. of water per 100 sq. yds. Apply uniformly over the entire bed. Cover the bed immediately with a plastic cover. Keep covered no less than one day, but no more than two days. The cover need not be tented, but should be secured to prevent wind from uncovering the treated area. Seven days after date of V.I.P. application, loosen the treated soil to a depth of 2 in. Do not seed tobacco earlier than 21 days after V.I.P. application.

- B. DRINCH METHOD: Apply 2½ gal. V.I.P. in 150 to 200 gal. of water per 100 sq. yd. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow directions given above for seed bed treatment.

2749-327

BEST DOCUMENT AVAILABLE

10

PAGE 10-

SYMPHYLED CONTROL: Soil should be in good seed bed condition to a depth of 6 to 12 inches. Maintain adequate moisture during spring season. Treat during July-August when symphyliids are in the upper soil surface. Apply 20 gal. V.I.P. per acre using blade or chisel injector. Inject below level of symphyliid concentration, usually 6 to 8 inches. Pack soil immediately after application.

EARLY MATURITY DISEASES OF POTATOES IN OREGON- Apply 40 gals. V.I.P. per acre using thin shank injector rig.

PEPPERWILT-Verticillium wilt control. When infestation is limited to small spots in a field, spread can be reduced by treating the soil with 100 gals. V.I.P. per acre using injector blade or thin shank injector rig.

PREVENTION OF ROOT GRAFT TRANSMISSION OF DUTCH ELM AND OAK WILT DISEASE

Immediately after a tree is diagnosed as having dutch elm or oak wilt disease, isolate the diseased tree from healthy trees with the V.I.P. treatment. If a diseased tree is less than 20 feet from a healthy tree or has advanced wilt symptoms, it may be necessary to treat at two sites- one between the diseased and the first healthy-appearing tree

and one between the first and the second healthy-appearing trees. This measure is advisable because the causal fungus may have already passed from the diseased to the first healthy-appearing tree before V.I.P. was applied.

Use V.I.P. diluted one part to three parts water for dutch elm disease and diluted one part to ten parts of water for oak wilt disease. Drill holes approximately 3/4 to 1 inch in diameter, 15 inches deep to 6 to 9 inches apart. Fill each hole with diluted V.I.P. to within 2 inches of the soil surface.

Make the line of treatment sufficiently long to kill all roots of the two adjacent trees that are likely to be root-grafted. Apply the chemical slowly and carefully to avoid overflowing the drilled holes, this will reduce grass kill. Tamp each hole closed with the heel. Allow at least two weeks after treatment before removing the diseased tree.

CULTIVATION AND PLANTING AFTER APPLICATION

On well drained soils of light to medium texture which are not excessively wet or cold following application, planting may take place 14 to 21 days after treatment. If soils are heavy or especially high in organic matter or remain wet and or cold (below 60° F.) following application of V.I.P.,

2749-327

7

BEST DOCUMENT AVAILABLE

PAGE -7-

a minimum interval of 30 days should be observed. Where dosages are greater than 100 gal. per acre, wait at least 60 days. On heavy, wet soils, light surface cultivation to break up crusting and promote drying of the soil should be done 3 to 7 days after application. This cultivation may be repeated as necessary. To avoid reinfesting treated soils, cultural practices should be such that untreated soils are not mixed with treated soils.

SPECIAL INSTRUCTIONS: When treating potting soil, or heavier field soils, including soils high in clay or organic matter, it is especially important that the soil be allowed to aerate and dry thoroughly after using V.I.P.. During cold and or wet weather, frequent shallow cultivations may aid the escape of V.I.P. from the soil. If in doubt, transplant a seedling plant and examine for injury before planting crop.

Manufactured For: ACETO CHEMICAL CO., INC.
AGRICULTURAL CHEMICALS DIV.
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