

Vinyzene® BP-5DIDP

Bacteriostatic & Fungistatic Additive for Vinyl Compounds

CAUTION

Out of Reach of Children — Do not allow in direct contact. Do not allow material to be splashed in eyes. Avoid contact with clothing. Not allowed.

Wash skin, wash thoroughly with soap and water. If splashed in eyes, wash eyes with copious amounts of water and secure medical attention immediately. No handling.

Is toxic to fish and wildlife. Treated effluent should not be discharged where it enters lakes, streams, ponds or public water. Do not contaminate water by equipment or disposal of wastes. Apply this product only as specified on this label.

Return empty drum. Return to drum reconditioner or destroy by perforating or burying in a safe place.

DIRECTIONS FOR USE

1% VINYZENE BP-5DIDP, based on total weight of formulation, will give control against bacteria and mold organisms. This level is recommended for vinyl films, wall coverings, mattress covers, windbreakers and similar items. BP-5DIDP may be used at a level of 3 percent in vinyl films to be employed in the manufacture of baby pants. EPA has specified that the plasticizers used in baby pants must be FDA approved. Add to vinyl formulation in place of an equivalent amount of plasticizer.

For vinyl items which may be subjected to extended outdoor weathering, a level of 5% VINYZENE BP-5DIDP should be evaluated. Such items would include vinyl coverings acquired by military and naval agencies for protection on items subjected to outdoor storage.

NOTICE TO USER

Warning: In accordance with Federal law to use this product in a manner inconsistent with its label.

Active Ingredients:

10,10'-oxybisphenoxarsine	1.0%
(Total arsenic as elemental as - 0.30%)	
(Water soluble arsenic as elemental as - Less than 0.01%)	

Inert Ingredients:

99.0%
100.0%

READ THIS LABEL BEFORE USING

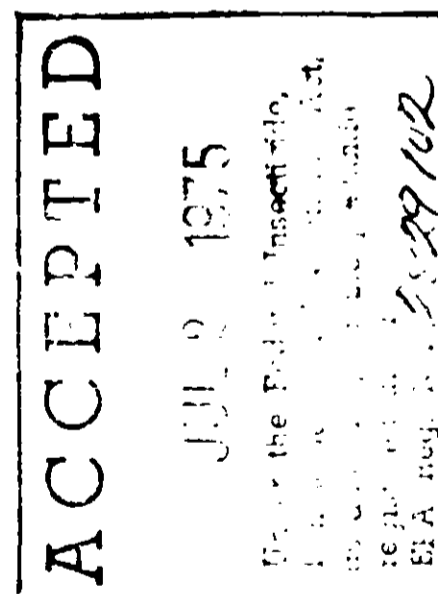
FOR ADDITIONAL INFORMATION SEE BULLETIN NO. 30-RP

U. S. Patent No. 3,288,674

Licensed for use under U.S. Patent No. 3,069, 252

EPA REGISTRATION NO. 2829-102

EPA EST. REGISTRATION NO. 2829-IL-1



Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

Vinyzene BP-5

and Related Formulations

VINYZENE[®] BP-5 is an effective bacteriostatic and fungistatic agent for use in plastics formulations. It gives protection against the entire spectrum of organisms from gram negative to gram positive.

VINYZENE BP-5 is:

Stable to heat
Stable to light
Compatible
Economical

VINYZENE BP-5 does not affect physical properties in any way. Flexible vinyl systems containing **VINYZENE BP-5** can be formulated to be stable to leaching by fresh water or salt water.

Formulations of polyvinyl chloride, polyurethane and ethylene vinyl acetate containing three to five percent by weight of **VINYZENE BP-5** demonstrate good activity against both bacteria and fungi.

Typical Formulation:

Vinyl Resin	100 parts
Primary plasticizer such as DOP	As required
VINYZENE BP-5	5% of total formula

Heat stabilizer:

Ba—Cd—Zn such as Argus Mark 768 or	
Ba—Cd such as Argus Mark M	3.5 parts
Phosphite such as Argus Mark C*	1.5 parts
Antioxidant such as BHT or Bisphenol A	As required

Lubricant such as stearic acid

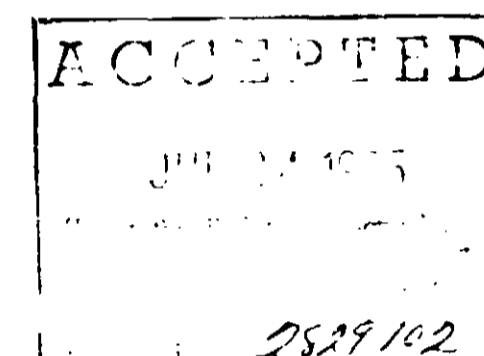
Minimum required by
processing conditions

UV absorber such as Tinuvin[®] 327 (Ciby-Geigy)

Uvinul D-49 (GAF)

As required

*Addition of 1.5 parts phosphite is recommended even though the heat stabilizer may contain some phosphite.



VENTRON

Procedure:

Vinyl plastisols were mixed, drawn into films and oven cured for five minutes at 350° F. Cured films were weathered for periods of up to 300 hours in an Atlas Weatherometer, Model DMC-II, using Cam No. 7. Weathered and unweathered samples were tested for bacteriostatic effectiveness.

Durability Studies on 8-Mil Clear Film with Vinyzene BP-5 at 5% of Total Formulation

Test Organism	Leached 24 hours	U.V.* 16 hrs.	Weathered 300 hours.	Untreated Control
Zones of inhibition in millimeters				
S. aureus	12	14	7	0
B. subtilis	10	8	2	0
E. coli	10	10	3	0
S. typhosa	10	10	4	0
S. derby	8	10	3	0
Mixed fungal spores	13	10	1	0
S. rubrireticuli	13	7	2	0

*High intensity G.E. Lamp

Our extensive laboratory facilities are at your disposal for determining the susceptibility of your product to attack by any organisms.

Typical Properties of Vinyzene Formulations

	BP -5	BP -5 DOP	BP -5 DIDP	BP -5 RC
Nonvolatiles	100%	100%	100%	100%
Carrier	epoxidized soya oil	DOP	DIDP	epoxidized soya oil
Flash Point (COC)	600°F	425°F	445°F	600°F
Approximate MW	1000	390	450	1000
Pour Point	-4°C	-46°C	-37°C	-4°C

Recommended Levels of Use:

A level of 3% **VINYZENE BP-5**, based on total weight of formulation, will give excellent control against bacteria and mold organisms. (See typical formulation above). This level is recommended for shower curtains, wall coverings, refrigerator gaskets and similar items.

For certain vinyl items which may be subjected to extended outdoor weathering a level of 5% **VINYZENE BP-5** should be evaluated. Such items would include marine fabrics, swimming pool and ditch liners, exterior automotive parts, air-supported structures, tarpaulins and other items.

Toxicology:

In its undiluted form **VINYZENE BP-5** is a moderate skin irritant and should not be splashed on skin or in eyes. If the material is splashed in eyes the eyes should be immediately flushed with copious amounts of water. If splashed on skin it should be washed off immediately. The acute oral LD₅₀ is 1750 mg/kg; the acute dermal LD₅₀ is 9200 mg/kg.

Standard Package — Steel drum, 450 pounds net

EPA REGISTRATION NO. 2829 -82

Manufactured and sold under U.S. Patent No. 3,288,674

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Ventron Corporation, Chemicals Division

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NAPASCO

9-16-71

KILLS MOST VEGETATION WEEDS CAN BE KILLED QUICKLY "006" WEED KILLER

2831-13

ACTIVE INGREDIENTS

Petroleum Distillates	24.15%
Aromatic Petroleum Hydrocarbon	8.59%
Pentachlorophenol	7.73%
Isocetyl Ester of 2, 4-Dichlorophenoxyacetic Acid*	3.98%
Other Chlorophenols and Related products	.86%

INERT INGREDIENTS

2, 4-D Acid Equivalent	54.69%
	2.64%

CAUTION: KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or absorbed through skin. Causes skin irritation. See side panels for further precautions.



GENERAL INFORMATION

"006" Weed Killer may be applied dusted at the rate of 1/2 lb. per 1000 sq. ft. or as a spray on non-cropland areas where bare ground is desired. The degree of weed control and time of application will vary with the amount of chemical applied, type of vegetation, and other conditions.

DIRECTIONS

Apply any time of year except when the ground is frozen. Best results are obtained after predominant species are well established in late spring or early summer. Before treating, remove all debris to insure uniform cover of the area to be treated. Measure out the proper amount and apply.

EQUIPMENT

Power sprayers, compressed air hand sprayers, knapsack sprayers or an ordinary sprinkler can be used to apply. After application slight agitation is recommended.

WARNING: Harmful or fatal if swallowed or absorbed through skin. Causes skin irritation. Do not breathe vapor or spray mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. In case of contact, wash skin with soap and water. If in eyes, immediately flush with large amounts of water for at least 15 minutes and get medical attention. Keep out of reach of children and animals.

GENERAL WEED CONTROL

To control most weeds for extended period of time on non-cropland areas such as parking lots, fence rows, loading ramps, plant sites, apply 3 to 5 gallons per 1000 square feet (120 to 200 gallons per acre).

To control annual weeds and grasses such as foxtail, ryegrass, wild oats, crabgrass, cheatgrass, broomsedge, ragweed, lambsquarter and turkey mullein, apply 1 to 2 gallons per 1000 sq. ft. (40 to 80 gallons per acre).

For other HARD TO KILL perennial weeds and grasses such as Johnson grass, saltgrass, bouncing bet, broken fern and horsetail, apply 3 to 7 gallons per 1000 sq. ft. (120 to 200 gallons per acre).

To control perennial weeds and grasses such as smooth brome, Canada bluegrass, purple-top, dandelion, dog fennel, goldenrod, plantain and wild carrot, apply 2 to 4 gallons per 1000 sq. ft. (80 to 160 gallons per acre).

WARNING

Do not apply to areas underlaid by roots of desirable trees and shrubs. Do not apply liquid directly to, or otherwise permit it to come into contact with susceptible plants such as vegetables, flowers, fruit trees, ornamentals, cotton, grapes or other desirable plants and do not permit spray mists containing it to drift onto them. (Coarse sprays are less likely to drift.) Vapors from this product may injure susceptible plants in the immediate vicinity. Thoroughly clean spray equipment with a suitable chemical cleaner before using for other purposes. Do not store near fertilizers, seeds, insecticides, or fungicides. Do not contaminate waters used for irrigation or domestic purposes.

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed.

Keep out of any body of water.

Do not contaminate water by cleaning of equipment or disposal of wastes.

Apply this product only as specified on this label.

For more information, contact your local distributor.

