

MORTON THIOKOL, INC.

Ventron Division

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D-204-21

VINYZENE • ANTIMICROBIALS

PRODUCT SERIES

BP-5-2

BP-5-2DIDP

BP-5-2DOP

BP-5-2PG

BP-5-2S-160

BP-5-2U

ACCEPTED

13 1966

Federal Inven-
tion
Registered under
EPA Reg. No. 2 X39-96

DESCRIPTION

VINYZENE antimicrobials are solutions of 10,10'-oxybisphenoxarsine (OBPA) in selected non-volatile plasticizer carriers. They are recommended for PVC, polyurethane and other plastics and synthetic rubbers. Low concentrations of VINYZENE antimicrobials will provide long-term protection against a broad spectrum of bacterial and fungal attack and will help prevent surface growth, musty odors, permanent staining, embrittlement and premature product failure.

APPLICATION

VINYZENE antimicrobials are recommended for film and sheeting, extruded profiles, plastisols, molded goods, organosols, fabric coatings and similar systems requiring an effective antimicrobial compound. These solutions are compatible with most polymer formulations and will not discolor or detract from the protected product's chemical or physical properties. VINYZENE products can be conveniently incorporated into the formulation.

Properly formulated plastics with VINYZENE protection will resist microbiological deterioration after long-term exposure to heat and severe weathering conditions.

Susceptible items successfully protected with VINYZENE:

SHOWER CURTAINS
FLOOR COVERINGS
WAL. COVERINGS
DITCH LINERS
COATING FABRICS
VINYL LINING
MARINE EQUIPMENT

AUTO LANDAU TOPS
TARPAULINS
AWNINGS
REFRIGERATOR GASKETS
WEATHER STRIPPING
SWIMMING POOL LINERS
POLYURETHANE SLIPPERS

TYPICAL PROPERTIES

<u>PRODUCT</u>	<u>CARRIER</u>	<u>% OBPA</u>	<u>SPECIFIC GRAVITY 25°C</u>	<u>FLASH POINT</u>	<u>OH#</u>	<u>H₂O(Z)</u>
BP-5-2		2.0	0.997	430°F		
BP-5-2DIDP		2.0	0.956	285°F		
BP-5-2DOP		2.0	0.974	285°F		
BP-5-2PG		2.0	1.010	450°F	57.6	0.05
BP-5-2S-160		2.0	1.110	410°F		
BP-5-2U		2.0	1.15	365°F	225	0.05

RECOMMENDED USE LEVELS

VINYZENE BP-5-2 formulations are incorporated into a compound by substituting the required level (1.5% or 2.5%)* for an equal amount of plasticizer or polyol. For example, in 1000 lbs. of a compound containing 300 lbs. of DOP plasticizer and requiring a 2.5% VINYZENE level, 25 lbs. of the DOP would be replaced with 25 lbs. of VINYZENE BP-5-2DOP. It is important to remember that the cost of using VINYZENE is, therefore, calculated as the difference in cost between the VINYZENE and the replaced plasticizer. (*Based on the total weight of the compound).

Roofing membranes, drainage application, foam gaskets (e.g. for air conditioner) and similar rigorous applications may require a higher dosage level, up to 10% VINYZENE BP-5-2 (equivalent to 2000 ppm of the active ingredient).

HANDLING PRECAUTIONS

In their undiluted form, VINYZENE antimicrobials are skin irritants and contact with the skin or eyes should be avoided. If VINYZENE is splashed in the eyes, flush with copious amounts of water and secure immediate medical attention. If it is splashed on the skin, wash thoroughly with soap and water. VINYZENE solutions are harmful if swallowed and should be kept out of the reach of children.

VINYZENE antimicrobials are toxic to fish and wildlife. VINYZENE should not be discharged where it will drain into lakes, streams, ponds, or public water.

Wear eye protection and rubber gloves when handling.

VINYZENE BP-5-2 formulations should only be used as specified on the container labeling.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Triple rinse empty containers and offer for recycling or reconditioning. Metal drums that cannot be reconditioned and recycled, should be punctured or crushed and disposed of in landfill, or other procedures approved by state and local authorities

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

STANDARD PACKAGE AND EPA REGISTRATION NUMBER

BP-5-2	Steel drum, 450 lbs. net weight - EPA 2829-96
BP-5-2DIDP	Steel drum, 430 lbs. net weight - EPA 2829-96
BP-5-2DOP	Steel drum, 450 lbs. net weight - EPA 2829-96
BP-5-2PG	Steel drum, 450 lbs. net weight - EPA 2829-96
BP-5-2S-160	Steel drum, 450 lbs. net weight - EPA 2829-96
BP-5-2U	Steel drum, 450 lbs. net weight - EPA 2829-96

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