

VINYZENE™ BP 5-5

Bacteriostatic and Fungistatic Additives for Plastic Compounds

Description

VINYZENE antimicrobials are solutions of 10,10'-oxybisphenoxarsine (OBPA) in selected nonvolatile plasticizer carriers. They are recommended for vinyl, 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.

Typical Properties

These properties are typical but do not constitute specifications.

Product	Plasticizer	OBPA (%)	Specific Gravity 25°C	Flash Point (COC)	OH#
BP 5-5 DIDP	di-isodecylphthalate	5	0.945	235	
BP 5-5 DOP	di-(2-ethylhexyl) phthalate	5	0.959	235	
BP 5-5 PG	polypropylene glycol	5	0.977	225	114
BP 5-5 711	di-(C7-9-11 alkyl) phthalate	5	0.949	235	
EPA Registration Number: 2829-125		U.S. Patent No. 5,102,657			

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 antimicrobial protection will resist microbiological deterioration after long-term exposure to heat and severe weathering conditions.

Rohm and Haas can provide microbiological susceptibility testing and assistance in developing formulations to meet your specific requirements.

Recommended Use Levels

Interior Applications: VINYZENE BP 5-5 Series, 0.6% based on the total weight of the compound.

Exterior Applications: VINYZENE BP 5-5 Series, 1.0% based on the total weight of the compound.

The recommended use levels are based upon tests conducted in Rohm and Haas laboratories and exposure of products to actual service conditions. Recommendations on formulation parameters for products are available from Rohm and Haas.

VINYZENE BP 5-5 formulations are incorporated into a compound by substituting the required level (0.6% or 1.0%) for an equal amount of plasticizer or polyol. For example, in a 1000 lb batch containing 300 lb of plasticizer and requiring a 1.0% VINYZENE antimicrobial level, 10 lb of the plasticizer or polyol would be replaced with 10 lb of appropriate VINYZENE BP 5-5. It is important to remember that the cost of using VINYZENE antimicrobials is, therefore, calculated as the difference in cost between the VINYZENE and the replaced plasticizer.

Handling Precautions

In their undiluted form, VINYZENE BP 5-5 antimicrobials are severe eye and skin irritants and contact with the skin or eyes should be avoided. If VINYZENE antimicrobial 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 antimicrobial solutions are harmful if swallowed and should be kept out of the reach of children.

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

Wear eye protection and rubber gloves when handling.

VINYZENE BP 5-5 formulations should only be used as specified on the 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. Plastic drums which cannot be reconditioned and recycled should be punctured or crushed, and disposed of in landfill or by other procedures approved by state and local authorities.

Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of U.S. 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 U.S. EPA Regional Office for guidance.

Susceptible Items Successfully Protected With VINYZENE Antimicrobials

Shower Curtains	Floor Coverings
Wall Coverings	Ditch Liners
Coated Fabrics	Vinyl Molding
Marine Upholstery	Carpet Underlay
Urethane Outsoles	Leisure Furniture
Camouflage Cloth	Tarpaulins
Auto Landau Tops	Refrigerator Gaskets
Awnings	Swimming Pool Liners
Weather Stripping	Waterbed Liners
Foam Gaskets	Hospital Sheeting
Backlit Signs	

Rohm and Haas Company is a raw materials supplier, not an end-use manufacturer of product. Development of a final formulation, testing, application, and ultimate performance of the end-use product is fully the responsibility of the formulator.

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