

VINYZENE™ IT-4020 DIDP

Antimicrobial Additives for Plastics

Description

VINYZENE IT-4020 DIDP is an antimicrobial solution of 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one in a nonvolatile plasticizer carrier. VINYZENE IT-4020 DIDP additive is an effective fungicide for use in Vinyl, polyurethane and other polymeric compositions requiring fungal protection. Low levels of VINYZENE IT-4020 DIDP additive will provide long term preservation against fungal attack and will help prevent surface growth, permanent staining, embrittlement and premature product failure.

Application

VINYZENE IT-4020 DIDP additive is recommended for Vinyl film and sheeting, extruded profiles, plastisols, molded goods, organosols, fabric coatings, urethanes and urethane foams, and similar polymeric systems. The antimicrobial is compatible with most polymer formulations and will not discolor or detract from the protected product's chemical or physical properties. VINYZENE IT-4020 DIDP additive solution can be conveniently incorporated into the formulation during the mixing or compounding processes.

Typical Properties

These properties are typical but do not constitute specifications.

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| Active ingredient | 20% |
| Diisodecylphthalate | 80% |
| Appearance | straw-colored, clear liquid |
| Specific Gravity | 0.99 |
| Odor | Mild |

Recommended Use Levels

In general, VINYZENE IT-4020 DIDP additive is recommended at concentrations between 0.4% and 1.0%. For outdoor applications, a level of 1.0% is recommended in Vinyl formulations for maximum effectiveness. Rohm and Haas maintains extensive microbiological, chemical and physical testing facilities in order to assist the manufacturer in determining the optimum level of antimicrobial agent required for each compound.

VINYZENE IT-4020 DIDP contains 80% DIDP. Therefore, when using this product in a compound, the appropriate adjustment of plasticizer in the formulation must be made. For example, if 1% of VINYZENE IT-4020 DIDP is used, then a 0.8% reduction of plasticizer is required to maintain equivalent plasticity. It is important to remember that the cost of using VINYZENE antimicrobial additives is, therefore, calculated as the difference in cost between the VINYZENE antimicrobial additive and the replaced plasticizer.

VINYZENE IT-4020 DIDP additive should be added early in the blending operation to assure homogeneity.

Handling Precautions

In its undiluted form, VINYZENE IT-4020 DIDP additive is corrosive to the skin or eyes. If VINYZENE IT-4020 DIDP additive 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 additive solutions are harmful if swallowed and should be kept out of reach of children.

Wear eye protection and rubber gloves when handling.

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

VINYZENE IT-4020 DIDP additive should only be used as specified on the label.

Storage and Disposal

VINYZENE IT-4020 DIDP is subject to freezing if stored at cold temperatures. If any freezing occurs, fully thaw the entire contents of the drum by storing at room temperature before using.

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, spray mixture, 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.

Standard Package

Plastic Drum, 440 lbs. net weight

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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