

FUNGITROL® 720

Dry-Film Preservative

Paints & Coatings
& Material Protection/US

EPA Registration No.: 5383-170

Fungitrol® 720 offers highly effective, broad-spectrum protection against degradation, discoloration and defacement various fungi. It is a 20% IPBC dry-film preservative in a non-aqueous VOC-exempt solvent system.

Application & Use

Fungitrol® 720 Fungicide is used primarily as a dry-film preservative to protect paint, coatings, and stains from mold, mildew, and wood rot fungi. Other applications include adhesives, metal processing fluids, and inks. It is easily incorporated into water-based or solvent-based formulations and can be added efficiently at the appropriate formulation stage (i.e., prior to letdown). The product exhibits good stability with ionic surfactants and emulsifiers.

This product is suitable for systems with a pH of <9 and at a temperature up to <60°C.

Product Highlights

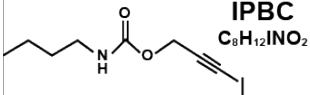
- Full-spectrum protection
- VOC Exempt Carrier
- Odor free
- Freeze-thaw stable
- Globally approved active ingredient

Physical Properties

The following are typical properties of Fungitrol® 720; they are not to be considered product specifications.

Appearance:	Light yellow liquid
Specific Gravity, 25°C:	1.19
Flash Point (Closed cup)	>428 °C

Active Substance

20.0%	3-Iodo-2-propynyl butyl carbamate	 <p>IPBC C₉H₁₂INO₂</p>
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Function/Activity

The following suggested use levels are based on laboratory tests and are typical for the applications indicated. The actual level required for your system is formulation specific. The selection of the individual components of the formulation, the substrate to be coated, and the environment in which the coating will be exposed all have an influence on the amount of protection needed. Suggested use levels are reported as percentage of the end-use product.

Adhesives

Fungitrol® 720 can be used as an additive to non-medical, non-food use natural and synthetic adhesive formulations and caulks to prevent the growth of fungal organisms in the material both in the wet state and on the dry film of the finished product. Recommended use levels are between 0.125–1.25% wet formulation weight. This product should be added toward the end of the production cycle with good agitation to ensure a uniform distribution. For example, to inhibit the growth of mildew on latex-based wall cover adhesive for a non-food area, add 1.0% (10 lbs. of Fungitrol® 720 per 1000 lbs. of latex-based adhesive formulation) of this product to the latex-based formulation.

Aqueous Metal Processing, Cutting, Cooling, and Lubricating Concentrates

To inhibit the growth of fungi in an aqueous metal processing, cutting, cooling, or lubricating fluid, add 0.15–0.5% of this product to the diluted fluid (0.5 gallons per 100 gallons of solution or 5 liters per 1000 liters). This product can be added to the fluid at the time it is prepared (diluted) or to the reservoir (sump) containing the fluid after it is put into use. If it is added to the reservoir, the fluid should be circulated after addition to ensure mixing.

Inks

Fungitrol® 720 Fungicide can be used in aqueous-based ink solutions for protection against attack by fungal organisms. It is recommended that this product be added at the end of the production cycle with good agitation. This product will generally impart protection when used at levels of 0.25–3.00% of active ingredient based on the formula weight.

Plastics and Plastic Coatings

Fungitrol® 720 Fungicide can be used to prevent surface mildew growth on plastic items such as shower curtains, cable and wire insulation, and sun umbrellas. Intended plastics include polymers such as PVC. This product should be dispersed in the plasticizer or color concentrate before it is incorporated into the resin to ensure a uniform distribution. Use of this product is not recommended if the heat of processing is above 350°F for prolonged periods, nor should it be used in a plastic that will be in contact with food or medical device applications.

Paper Coatings

Fungitrol® 720 Fungicide can be used as a mildewcide in both aqueous and solvent-based coatings, which are applied to paper and cardboard substrates. It can be used to prevent mold and mildew from growing on products such as corrugated cardboard or soap wrappers, wall covers, non-food contact packaging materials, and non-food contact paper tapes.

Wood Preservation

Fungitrol® 720 Fungicide is a liquid designed for use as a wood preservative for use in above-ground applications. Dosage ranges vary by application. Exact level of use should be determined by field trials.

Function	% Wt/Wt
Paint	0.20 - 4.00%
Metalworking Fluids	0.15 - 0.50%
Paper Coatings	0.25 - 3.75%
Plastics & Plastic Coatings	0.25 - 5.00%
Inks	0.25 - 3.00
Pigment Dispersions	0.02 - 4.00%
Slurries	0.02 - 4.00%
HI&I	0.02 - 0.15%
Wood	1.50 - 6.00%

Formulating Considerations

Fungitrol® 720 can be added to formulations at any stage of the manufacturing process. Degradation of the active ingredient in this formulation can cause yellowing in certain formulations. Suggested use applications should be evaluated for final product efficacy, color uniformity, and for pH, temperature, and storage stability. Do not store formulated products for prolonged periods in unlined iron or steel containers, as the degradation of the active ingredient is corrosive. Shelf-life is 12 months from date of manufacture.

Packaging

Fungitrol® 720 is packaged in:

Package Type	Net Weight
Pail	40 lbs / 18.1 kg
Large Drum	441 lbs / 200 kg
Tote	2000 lbs / 907.2 kg

Product Safety & Additional Information

For handling, storage, health, and safety information and disposal procedures, as well as additional information, please refer to the Safety Data Sheet (SDS) and label.



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