



NUMBER 4879

Fungitrol™ L30 DPG fungicide

EPA Registration No. 1592-42
EINECS No. 259-627-5 (IPBC)

Description

Fungitrol L30 DPG fungicide is a 30% IPBC in organic solvents that offers broad protection against degradation, discoloration, and defacement caused by mold, mildew and algae.

Key Attributes

Fungitrol L30 DPG fungicide is used primarily for fungal control in metalworking fluids. It is easily incorporated into water-based or solvent-based formulations. It can be added efficiently at the appropriate formulation stage. Typical use levels for aqueous metal working, cutting, cooling and lubricating fluids and concentrates are 0.1 – 1.75% by weight. The product exhibits good stability with ionic surfactants and emulsifiers.

Fungitrol L30 DPG fungicide is a liquid designed for use as an additive. All recommendations of use levels are in percentage by weight and refer to this product. Exact level of use within these ranges should be determined by field trials. **DO NOT USE IN MATERIALS DESIGNED FOR APPLICATIONS ON FOOD-CONTACT SURFACES, OR ON THE INTERIOR OF BUILDINGS ENGAGED IN FOOD PROCESSING OR FOOD HANDLING.**

Applications and Usage Notes

Aqueous Metalworking, Cutting, Cooling and Lubricating Concentrates

To inhibit the growth of fungi in an aqueous metalworking, cutting, cooling or lubricating concentrate, add an amount of this product that will give up to 3,750 ppm in the diluted fluid. The amount required in the concentrate will depend on the end-use dilution. For example, if the desired level of this product in the diluted fluid is 375 ppm, and the end use dilution of the fluid is 5%, then a 0.75% concentration of this product is required in the concentrate ($375 \text{ ppm} / 0.05 = 7,500 \text{ ppm}$ or 0.75%).

Aqueous Metalworking, Cutting, Cooling and Lubricating Fluids

To inhibit the growth of fungi in an aqueous metalworking, cutting, cooling or lubricating fluid, add up to 3,750 parts per million (0.375% v/v) of this product to the diluted fluid (0.375 gallons per 100 gallons of solution or 3.75 liters per 1000 liters). This product may 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.



Typical Product Properties

Chemical structure	$ \begin{array}{cccccccc} & & \text{H} & & \text{O} & & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & & & & & \\ \text{I}-\text{C} & \equiv & \text{C} & - & \text{C} & - & \text{O} & - & \text{C} & - & \text{N} & - & \text{C} & - & \text{C} & - & \text{C} & - & \text{C} & - & \text{H} \\ & & & & & & & & & & & & & & & & & & \\ & & & & & & \text{H} & & \text{H} & & \text{H} & & \text{H} & & \text{H} & & \text{H} & & \text{H} \end{array} $
Chemical name	Carbamic acid, butyl-, 3-iodo-2-propynyl ester
Other names	3-Iodo-2-Propynyl Butylcarbamate
Formula	C ₈ H ₁₂ INO ₂
CAS No.	55406-53-6
Description	Clear, amber liquid
Specific gravity (H ₂ O = 1), 25 °C	1.145
Percent active	30%
Odor	Characteristic
Stability	Stable in pH range of 4–10

General Efficacy

Fungitrol™ L30 DPG fungicide exhibits superior fungi, algae and bacteria control against a wide variety of organisms. (See Table).

Agar Inhibition Data (values for active ingredient)

Test Organism	Minimum Inhibitory Concentration (MIC), ppm
Mold/Mildew/Yeast/Fungi	
<i>Alternaria tenuis</i>	5.0
<i>Aspergillus glaucus</i>	4.0
<i>Aspergillus niger</i>	0.6-5.0
<i>Aspergillus oryzae</i>	4.0
<i>Aureobasidium pullulans</i>	4.0-6.0
<i>Candida albicans</i>	6.0-8.0
<i>Chaetomium globosum</i>	5.0
<i>Gliocladium sp.</i>	8.0
<i>Penicillium brevicaulis</i>	1.0
<i>Penicillium funiculosum</i>	4.0-6.0
<i>Saccharomyces cerevisiae</i>	5.0
<i>Talaromyces flavus</i>	6.0
<i>Trichoderma viride</i>	10.0
Algae	
<i>Chlorella pyrenoidosa</i>	8.0
<i>Oscillatoria sp.</i>	<50.0
Bacteria	
<i>Bacillus subtilis</i>	50.0
<i>Escherichia coli</i>	100.0
<i>Klebsiella pneumoniae</i>	50.0
<i>Pseudomonas aeruginosa</i>	250.0-1000.0

Solubility

Fungitrol L30 DPG fungicide exhibits excellent solubility characteristics in non-aqueous solvents, including ionic and non-ionic surfactants, emulsifiers and commonly-used alcohol and glycol derivatives. It is also moderately soluble in water.

Packaging Information

Product	Physical Form	Pkg Type	Net Wgt
Fungitrol™ L30 DPG	Liquid	Drum	204.1 kg

Product Safety Information

For health and safety data and handling, storage and disposal procedures, please refer to the Safety Data Sheet (SDS) and product label.

Registration

The active ingredient in Fungitrol L30 DPG fungicide is listed in TSCA, EINECS, DSL, KECI and MITI. Iodopropynl butylcarbamate is on the official RAL list in Germany.

Regulatory requirements governing the use, registration, and approval of industrial biocides around the world are continually changing and evolving.

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