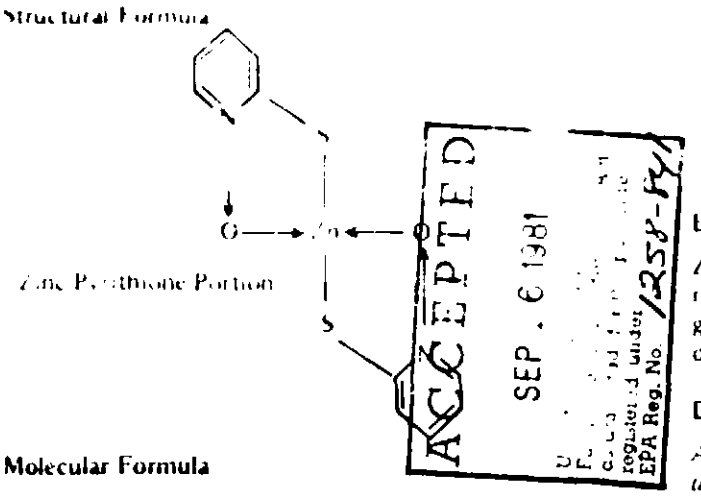
Olin INDUSTRIAL BIOCIDES **SPECIFICATIONS**

# ZINC OMADINE® 48% AQUEOUS DISPERSION

## INDUSTRIAL MICROBIOSTAT FOR USE AS AN INDUSTRIAL PRESERVATIVE AGAINST BACTERIA AND FUNGI FOR FABRICS AND CUTTING OIL COOLANT SOLUTIONS.

Structural Formula






**Molecular Formula**

$C_{10}H_8N_2O_2S_2Zn$

**Ingredients**

| | |
|---|---|
| Active-zinc pyrithione (%) (zinc 2-pyridinethiol 1-oxide) | 48 |
| inert (%) | 52 |

**Specifications**

| | |
|---|---|
| Zinc Pyrithione (%) | 48 50 |
| Zinc (%) | 9.3 11.3 |
| pH, 5% active slurry @ 25°C | 6.5 8 |

**Typical Physical Properties**

| | |
|---|---|
| Molecular Weight (zinc pyrithione) | 317.7 |
| Color | off-white |
| Form | creamy-aqueous dispersion, free of foreign matter |
| Particle Size | |
| 7 microns or less (%) | 95 |
| 5 microns or less (%) | 90 |

**General Properties**

Zinc Omadine 48% Aqueous Dispersion

- exhibits pronounced growth inhibiting activity against a broad spectrum of both Gram positive and Gram negative bacteria.
- [illegible] both yeast and mold
- [illegible]
- should not be used in the presence of any chlorine residuals

**EPA Registration**

Zinc Omadine 48% Dispersion is registered with the Environmental Protection Agency for use in inhibiting bacterial growth in metalworking fluids and mold growth on laundered fabrics. (EPA Registration Number 1258-841)

**Directions for Registered Use**

*Aqueous Metal Coolant and Cutting Fluid Solutions (Soluble Oil, Semisynthetic, Synthetic)* -- To inhibit bacterial growth in soluble oil, semisynthetic, or synthetic metalworking coolant and cutting fluids add an initial dose of 75 ppm Zinc Omadine (active) (1.5 lbs. Zinc Omadine 48% to 10,000 lbs. of solution) to the solution and repeat this dosage every 25 days or as needed.

Zinc Omadine 48% Dispersion can be used at fluid to water ratios of 1:10 to 1:100. Zinc Omadine 48% Dispersion should be added to the reservoir (sump) containing the fluid after it is put into use. The fluid should be circulated after addition to ensure mixing.

Contaminated fluid systems should be cleaned prior to the initial addition of Zinc Omadine 48% Dispersion. Drain the system, clean with a cleaner designed for this purpose; rinse with water and refill with fresh fluid containing Zinc Omadine 48% Dispersion according to the above directions.

Frequent checks (at least once a week) of the bacterial population in the system should be made using standard microbiological plate count procedures or any of the commercial "dip-stick" type devices. When the bacterial count reaches $10^7$ organisms per ml add additional Zinc Omadine 48% Dispersion according to the above directions. If this does not reduce the bacterial count below the above value in 12-24 hrs., the fluid should be discarded and replaced after cleaning the system. Add Zinc Omadine 48% Dispersion to the fresh fluid according to the above directions.

When adding fresh, diluted fluid to compensate for dragout or other losses, add Zinc Omadine 48% Dispersion to the make-up fluid according to the above directions.

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