

Omacide™ IPBC 20 Industrial Fungicide

For Use as a Post Treatment Additive

Omacide™ IPBC 20 Industrial Fungicide is another in the Lonza family of broad-spectrum anti-fungal products based on the chemical active 3-Iodo-2-propynyl butylcarbamate (IPBC). Due to the limited water solubility of IPBC this highly effective, fast acting antifungal agent is not always suitable for use as a post treatment antimicrobial additive. Omacide™ IPBC 20 Industrial Fungicide is most effective when used in dilute soluble oil and semi-synthetic fluid systems. While it may be used in dilute synthetic fluid systems, care must be taken to ensure it is added in places with good agitation. Omacide™ IPBC 20 Industrial Fungicide is registered with the U.S. Environmental Protection Agency (US EPA Reg. No. 1258-1222), for use in metalworking, cutting, cooling, and lubricating fluids.

Fungi (yeast and mold), while usually present, are not as easily detected by conventional methods, because the filamentous mycelial forms of mold tend to accumulate in machine crevices, in piping, on sump walls, gear boxes and other solid surfaces. Routine attempts to completely eliminate bacteria through continual use (and sometimes overuse) of bactericides alone usually result in conditions that encourage the growth of yeast and mold. Heavy fungal contamination can often require both mechanical and chemical treatment. Dumping, cleaning and recharging fluids are costly procedures. Moreover, in today's regulatory climate, disposal of used fluid can be expensive. Therefore, it is important that the routine treatment of a system includes a fungicide, as well as a bactericide, to ensure longer system life and savings on replacement, cleaning, and disposal costs.

Directions for Tankside Additions

We offer the following advice when making post treatment additions of Omacide™ IPBC 20 Industrial Fungicide.

1. Confirm the size of the system at the current operating level and determine the amount of Omacide™ IPBC 20 Industrial Fungicide necessary to treat the system. (See Table 1)
2. Carefully measure the biocide dose before adding it to the reservoir.
3. To ensure proper mixing, make post treatment additions of Omacide™ IPBC 20 Industrial Fungicide into areas of the metalworking fluid reservoir where there is good circulation.
4. For this biocide to be most effective, the addition should be made after any other required chemical, metalworking fluid concentrate, or make-up water addition.

Table 1

System Size	Dose	
Gallons	350 ppm	500 ppm
100	3.5 ounces	5.0 ounces
1,000	5.5 cups	8.0 cups
10,000	3.5 gallons	5.0 gallons

System Size	Dose	
Liters	350 ppm	500 ppm
100	35 mls	50 mls
1000	350 mls	500 mls
10,000	3.5 liters	5.0 liters

NOTE: standard suggested doses only; specific dosing is always subject to each user's analysis of the particular application environment.

Recommended Use Levels

A typical post treatment dose level for this product is between 350 and 750 ppm (parts per million) product as sold. The amount of Omacide™ IPBC 20 Industrial Fungicide used must never exceed the maximum US EPA approved dose of 5000 ppm product, as sold.

The need for an antimicrobial addition should be based on the results of standard microbiological tests (i.e. commercially available dipsticks) or chemical analysis for the active ingredient. Whenever fungi are detected or there are visual signs of fungal masses (biofilm) in a metalworking fluid reservoir, and addition of Omacide™ IPBC 20 Industrial Fungicide should be made. We recommended waiting 24 to 48 hours prior to conducting another microbial evaluation. The US EPA guideline for post treatment antimicrobial additions states that the maximum approved dose must not be exceeded per event. If repeated doses are found to be necessary within a limited time frame contact should be made with the fluid or antimicrobial additive supplier. This scenario is usually indicative of either an incompatibility of the antimicrobial product with the metalworking fluid or a more serious microbial problem.

Why Treatment is Necessary

Unchecked growth of microorganisms in metalworking fluids can cause fluid deterioration, resulting in damage to fluid handling systems, tools, and the work-piece. These problems can be controlled through the proper use of biocides. These problems may also be caused by other conditions. Therefore, we recommend making post treatment additions of Omacide™ IPBC 20 Industrial Fungicide after testing the fluid for the presence of microorganisms. Since this product is a fungicide, bacterial contamination will require the use of another biocide.

The Importance of Record Keeping

Careful record keeping is essential for maintaining a clean system. The results of standard tests on a system (such as bacterial and fungal counts, pH and alkalinity) should be recorded regularly. A log of post treatment additions, biocide levels, and visual observations should also be kept. This type of record keeping can detect trends and serve to alert workers to a possible problem before the situation gets out of hand. In addition, data can be passed along to the fluid or biocide supplier when they are called upon to solve a problem.

Table 2 provides some typical chemical and physical properties Omacide™ IPBC 20 Industrial Fungicide.

Table 2

Properties of Omacide™ IPBC 20 Industrial Fungicide	
% Active Ingredient, min.	20.0
Color	Amber
Odor	Mild
Form	Liquid
Specific Gravity	1.03
Weight per Gallon (lbs.)	8.7

Omacide™ IPBC 20 Industrial Fungicide is compatible with the ingredients found in most metalworking fluids. Users should always analyze for themselves the applicability of formulation additives in their particular conditions.

Packaging

Omacide™ IPBC 20 Industrial Fungicide is available in the US in 99 lb and 485 lb containers.

Safety Information

Safety Data Sheets containing appropriate health and safety advice on the Lonza products is available from your nearest regional office.

Application

For product application and formulation information please refer to Omacide™ IPBC 20 Industrial Fungicide product labeling.

For information on spills, call 1 800 654 6911.

For more information, visit www.lonza.com

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