

ACTIVE INGREDIENTS: 4-(2-Nitrobutyl) morpholine 70% by wt
4,4'-(2-Ethyl-2-nitrotrimethylene) dimorpholine 20% by wt
INERT INGREDIENTS 10% by wt

DANGER! KEEP OUT OF REACH OF CHILDREN. CORROSIVE TO TISSUES. CAUSES SEVERE EYE AND SKIN DAMAGE. HARMFUL OR FATAL IF SWALLOWED OR ABSORBED THROUGH SKIN.

Do not get in eyes, on skin, on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling. Avoid contamination of food.

FIRST AID

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, do not induce vomiting. Drink large quantities of fluid, and call a physician immediately.

DIRECTIONS FOR USE

BIOBAN® P-1487 is a bacteriostatic agent recommended as an additive to reduce and control microorganisms in fluids such as cutting oils which are circulated in machines for metalworking.

In concentrates. BIOBAN P-1487 is soluble in organic solvents and may be incorporated by the manufacturer in the cutting-fluid concentrate. It normally will be stable in such concentrates as long as the pH is maintained above 6. However, long-term stability tests should be carried out by the manufacturer on his specific formulations to ensure that the concentrate does not contain ingredients incompatible with BIOBAN P-1487 stability. The amount to be incorporated will depend on the dilution factor recommended to be used when the concentrate is diluted for use. For efficient bacteriostatic activity, a concentration of 1000 ppm in the diluted fluid is suggested.

In diluted fluid. An initial concentration of 1000 ppm of BIOBAN P-1487 is normally sufficient to control gross microbial contamination of freshly diluted cutting fluids for a period of several weeks at ambient temperatures. The degree of control is influenced by the composition of the cutting fluid, the pH, the conditions of use, and other factors. Under conditions of severe microbial contamination, a concentration of BIOBAN P-1487 as high as 3000 ppm may be required temporarily.

Maintenance dosage. Periodic addition of BIOBAN P-1487 to the cutting fluid will extend its activity in controlling gross microbial contamination after the initial charge. Additions of 100 ppm to 200 ppm of BIOBAN P-1487 at weekly intervals usually are recommended.

Technical literature is available upon request. The addition of 14 fl. oz. of BIOBAN P-1487 to each 100 gal. of diluted cutting fluid will give a concentration of approximately 1000 ppm; for 100 ppm, add 1.4 fl. oz. to each 100 gal.

EPA Reg. No. 271-30

Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water.

FOR USE BY INDUSTRY AND REFORMULATORS ONLY

POLYMER DIVISION
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ACCEPTED WITH COMMENTS

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