

Typical Properties

Appearance	Colorless to Clear Pale Yellow Liquid
Active Ingredient	Methylene Bismorpholine
Specific Gravity@25°C	1.050 - 1.200
Viscosity@40°C, cSt	4 - 10
pH Value (5% Water Dilution)	9.0 -11.0
Std Packaging (NW / GW, Kg)	210.0 / 200.0

Product Description

SMARTCIDE MBM is a liquid, organic broad spectrum preservative designed for use in both the concentrate and working dilutions of soluble oil, semi-synthetic and synthetic metalworking fluid systems, which may be subject to microbial degradation. It is effective against both bacteria and fungi.

Advantages

- Cost effective;
- Proven efficacy against a broad range of bacteria and fungi at recommended use levels;
- Extends life of metalworking fluids;
- Easy to use liquid, at 0.15% (1500ppm) concentration in end-use dilution;
- For use in individual sumps as well as large central systems;

Efficacy

SMARTCIDE MBM has shown excellent efficacy against:

Bacillus subtilis; Proteus vulgaris; Desulfovibrio desulfuricans;
Klebsiella pneumoniae; Enterobacter aerogenes; Staphylococcus aureus;
Escherichia coli; Streptococcus faecalis; Proteus vulgaris.

Use level

SMARTCIDE MBM at appropriate use levels in both laboratory and field evaluations, inhibits microbial growth. Products protected with **SMARTCIDE MBM** can generally resist long-term, repeated challenge of microorganisms. Depending on the levels of protection required, **SMARTCIDE MBM** should be added to the metalworking fluid concentrates at levels of 2-5%, to provide 1,000 - 2,000 ppm in the final dilutions of the metalworking fluids. In order to evaluate the correct use levels, it is important to carry out laboratory tests.

Applications

Concentrate
Dilution

Suggested Treat Rates, %wt

2 - 5
0.1 - 0.2

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