

## ES - OPM

Formulation based on Biphenyl-2-ol and amines (free of phenol, formaldehyde, isothiazolinones and halogen)

N – 50306

Preservative for technical products

### Product description & benefits:

**ES-OPM** is a novel preservative formulation, effective both as bactericide/biocide and as fungicide. It is stable chemically, thermal, pH and long term (like storage).

**ES-OPM** is offering a good toxicology and it is not subject to EU H208 labeling because it doesn't contain isothiazolinones.

In addition, **ES-OPM** doesn't contain formaldehyde, making it a good alternative as bactericide/biocide, acting as "fast-killer".

### Fields of applications:

- Water miscible MWF
- System cleaners
- Paints & coatings

Suitable for product type 6 & 13:

PT 6:

In can preservation

PT 13:

Metal working fluids

### Application & indications for use:

In regular MWF concentrates (oil-based and semi-synthetic) the blending of **ES-OPM** doesn't pose a problem, the solubility in water is limited. The blending in coatings should have a focus on the high pH-value.

In MWF emulsions, fully synthetic MWF's and products containing very much water a slow and careful addition as well as proper stirring is advisable.

For in can preservation we advise a blending during production processes where the pH and ionic conditions are favorable (see below) as well as a slow addition.

For products / raw materials with low water content a thorough and proper stirring as well as an equal distribution of **ES-OPM** is advisable.

The emulsifier system for all application should be anionic / nonionic and the pH value should be alkaline (8.0 and higher). With this taken in account the solubility of the Biphenyl-2-ol is ensured. We always recommend checking the overall compatibility!

**ES-OPM** has a solid content of 75 %.

### Recommended dosages:

MWF concentrates:	2.0 % - 6.0 %
MWF emulsions:	0.1 % - 0.3 %
System cleaners:	5.0 % - 15.0 %
In can preservation:	0.05 % - 0.3 %
Technical emulsions:	0.1 % - 0.4 %

### Properties & Specs:

Appearance:	yellowish liquid
Odour:	characteristic / amine
pH (0.1 %):	10.0 – 12.0
Density (20 °C):	1.015 +/- 0.01

Edited 8/3/2018

**Use biocides safely. Always read label and MSDS before use.**

-Advisory leaflet without obligation-