

TYPICAL FORMULA

Active ingredient(s)	100,	00 g/l	to	600,00 g/l	
Surfactant(s)*	40,	00 g/l	to	150,00 g/l	
Glycol	50,	00 g/l	to	100,00 g/l	
Antifoam agent	1,	00 g/l	to	5,00 g/l	
Water		Quantity adjusted to 1 l			
* Emulsifier(s).					

DEVELOPMENT STEPS

- Check the active ingredient (a.i.) properties.
 - Liquid (solid pesticides are made soluble in a minimum quantity of solvent)
 - Low solubility of the a.i. in water
 - A.i. non sensitive to hydrolysis.
- Identify the right emulsifiers.

Range of Tensiofix® emulsifiers

Our alkylphenol free range of emulsifiers for EW consists in 5 main products:

- Tensiofix[®] 96 DB 08
- Tensiofix[®] 96 DB 10
- Tensiofix[®] DP 400

- Tensiofix[®] EW 70
- Tensiofix[®] XA 265

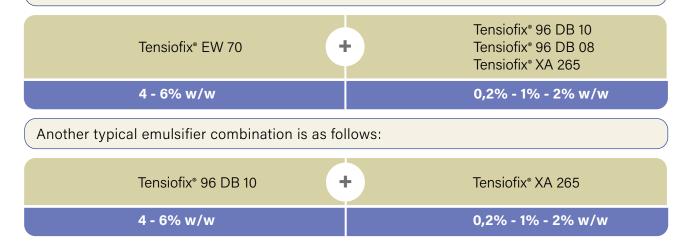
User guidelines

For each formula there is an optimum phase ratio; usually, the best ratio Oil phase/Water phase is 60/40 but this optimum will vary with the nature of the oil phase.

- Oil phase: a.i. + (solvent if required) + surfactants
- Water phase: water + antifoam + glycol.

As first trial, we recommend testing Tensiofix® EW70 at 6% w/w.

In case of droplet size or viscosity increase, the combination of Tensiofix[®] EW70 with another emulsifier is recommended.



Identify the other components:

Anti-freeze agent (+ co-surfactant effect)

Dipropylene glycol, propylene glycol, hexylene glycol... Antifoam

Typical silicone emulsion.

MATERIAL REQUIRED

• High shear homogenizer.



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