

# Armid® FMPC

## The effective co-solvent



A powerful optimized solvent blend for EC formulations. Additions of **Armid® FMPC** will increase the solubility of the active ingredient, avoid crystallization at low temperature and upon dilution.

### EC crystallization problems?

- Armid FMPC is AkzoNobel's new co-solvent for emulsifiable concentrate (EC) formulations
- Replaces N-Methylpyrrolidone as crystal inhibitor in EC recipes
- Excellent water solubility; miscible with typical aromatics, glycols & lower alcohols

### Why use Armid FMPC as co-solvent?

- Cost effective; good environmental profile
- Based on a morpholine derivative
- TSCA and DSL listed. This product contains only ingredients that have been subject to a pre-registration according to EU regulation No 1907/2006 (REACH). Not US-EPA listed.



Crystals that clog your nozzles during spraying is a common problem.

### Armid FMPC: Environmental profile\*

Acute oral toxicity (rat)	LD50 >5000 mg/kg
Acute dermal toxicity (rabbit)	LD50 >2000 mg/kg
Toxicity to fish	LC50 >500 mg/l Exposure time: 96 h Species: Leuciscus idus (Golden orfe)
Toxicity to daphnia	EC50 >500 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	EC50 >100 mg/l Exposure time: 72 h Species: Algae
Biodegradability	>70% DOC, 28 days Readily biodegradable
PBT and vPvB assessment	This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic) This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)
Eye and skin irritation	Eye irritant, may cause allergic reaction

\* literature data

### Solubility data

Solvent	5% Armid FMPC at 25°C
Water	miscible
Propylene glycol	miscible
1-Butanol	miscible
2-Ethyl hexanol	miscible
Dimethyl sulfoxide	miscible
Solvesso 150	miscible
Solvesso 200	miscible
Vegetable oil	miscible

## Application examples

Ingredient	Function	Concentration
Trifloxystrobin	Fungicide	125 g/l
Witconate P-1460 EH + Ethylan NS-500LQ + Ethylan 954 LQ	Emulsifier blend	90 g/l
Armid FMPC	Co-solvent	200 g/l
Armid DM10	Solvent	q.s. 1 liter

Ingredient	Function	Concentration
Quizalofop-P-ethyl	Herbicide	250 g/l
Berol 9968 + Berol 9969	Emulsifier blend	80 g/l
Armid FMPC	Co-solvent	200 g/l
Solvesso 150 ND	Solvent	q.s. 1 liter

Ingredient	Function	Concentration
Emamectin benzoate	Insecticide	40 g/l
Berol 9927	Emulsifier blend	100 g/l
Armid FMPC	Co-solvent	350 g/l
Solvesso 200	Solvent	q.s. 1 liter

Ingredient	Function	Concentration
Thiobencarb	Herbicide	600 g/l
2,4-D IBE	Herbicide	200 g/l
Sponto 300T + Sponto 500T	Emulsifier blend	60 g/l
Armid FMPC	Co-solvent	30 g/l
Solvesso 100	Solvent	q.s. 1 liter



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AkzoNobel creates everyday essentials to make people's lives more liveable and inspiring. As a leading global paints and coatings company and a major producer of specialty chemicals, we supply essential ingredients, essential protection and essential color to industries and consumers worldwide. Backed by a pioneering heritage, our innovative products and sustainable technologies are designed to meet the growing demands of our fast-changing planet, while making life easier. Headquartered in Amsterdam, the Netherlands, we have approximately 46,000 people in around 80 countries, while our portfolio includes well-known brands such as Dulux, Sikkens, International, Interpon and Eka. Consistently ranked as a leader in sustainability, we are dedicated to energizing cities and communities while creating a protected, colorful world where life is improved by what we do.