

Armid® FMPC

Avoid crystals that clog your nozzles during spraying by using Armid FMPC

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

Crystalization problems?

- Armid FMPC is Nouryon's new co-solvent for emulsifiable concentrate (EC) and soluble liquid (SL) formulations
- Replaces N-Methylpyrrolidone as crystal inhibitor
- Excellent water solubility; miscible with typical aromatics, glycols and lower alcohols

Why use Armid FMPC as co-solvent?

- Cost effective; good environmental profile
- Based on a morpholine derivative
- TSCA and DSL listed REACH compliant Not US-EPA listed

Solubility data

Solvents in 5% Armid FMPC at 25°C – miscible with: 1-Butanol, 2-Ethyl hexanol, Dimethyl sulfoxide, Propylene glycol, Solvesso 150, Solvesso 200, Water and Vegetable oil.



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

Application examples SL formulations

Ingredient	Function	Concentration
Imidacloprid	Insecticide	200 g/l
Adsee 900	Wetting agent	30 g/l
Ethylan NS-500LQ	Anti- cryztallisation agent	10 g/l
Armid FMPC	Solvent	g.s. 1 liter

Sentember 200

Application examples EC formulations

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

Storage

Armid FMPC is highly hydroscopic and may pick up moisture from air. Therefore, the product's exposure to air should be avoided.

Contact us directly for detailed product information and sample request website | nouryon.com/markets/agriculture email | agro@nouryon.com

Nouryon

Nouryon is a global, specialty chemicals leader. Markets and consumers worldwide rely on our essential solutions to manufacture everyday products, such as personal care, cleaning goods, paints and coatings, agriculture and food, pharmaceuticals, and building products. Furthermore, the dedication of more than 7,900 employees with a shared commitment to our customers, business growth, safety, sustainability and innovation has resulted in a consistently strong financial performance. We operate in over 80 countries around the world with a portfolio of industry-leading brands. Visit our website and follow us @Nouryon and on LinkedIn.

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