

Agrilan[®] 755

Its benefits are crystal clear

AkzoNobel 



Agrilan® 755



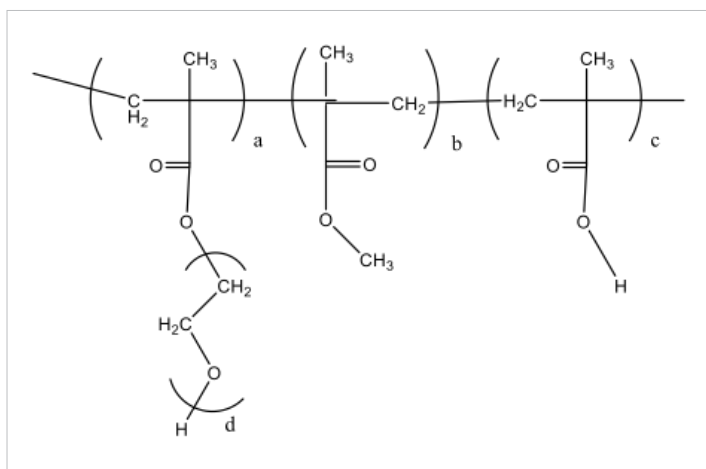
Its benefits are crystal clear

Our expertise in dispersants and your proficiency in agrochemicals cultivate the best solutions.

Agrilan® 755 is expertly designed to solve your most complex challenges in suspensions, providing your formulation with extreme stability and dispersability to prevent crystallization issues.

Agrilan 755 is a comb polymer that adsorbs to particles or droplets in Suspension Concentrates (SC), Suspo-Emulsions (SE), and Emulsions or oil in water (EW) formulations; improves stability in ODs; and avoids crystal formation in Soluble liquids (SL).

Figure 1: The Agrilan 755 structure is a soft anionic polymer based on a methyl methacrylate backbone grafted with PEG.



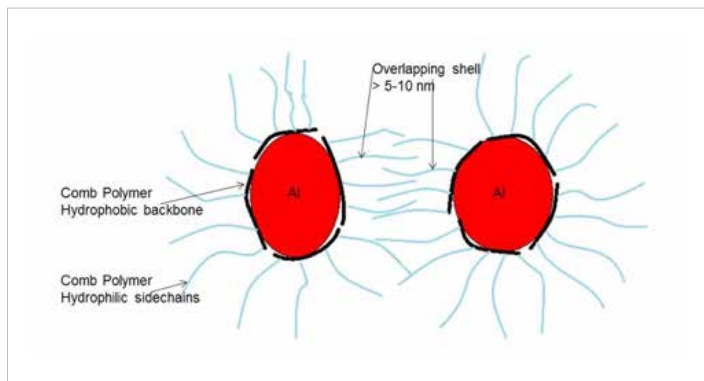
Why choose Agrilan 755?

- Add Agrilan 755 to prevent crystal growth
- Avoid separation of your OD formulations with small additions of Agrilan 755
- Need in-can adjuvants? Agrilan 755 can stabilize the formulation
- Prevent production problems with Agrilan 755's low viscosity and easy dilution
- Disperses and emulsifies particles and oil droplets in water with unmatched success

Agrilan 755 stands strong with its peers

Agrilan 755 is typically used alongside other dispersants or emulsifiers to provide improved stabilization. For example, in Suspension Concentrates it is recommended to use Morwet D-425 during milling while Agrilan 755 should be added after the milling step. Allow Agrilan 755 to swell - it will reach full potential 12h after addition.

Figure 2: Agrilan 755 attaches strongly to particles thanks to its hydrophobic backbone. Steric stabilization arises from overlapping of the PEG chains.



Let's formulate

Formulation type	Active	Recipe	Process
EW	Malathion 500	52,6 g/l Malathion 0,5% Agrilan 755 8,2% Ethylan 324 5,5% Emulpon CO360 1% Triethylamine Water up to 100%	Start with water and add surfactants under stirring. Slowly add Malathion under vigorous stirring (>2000 rpm). Add buffer to pH 7 at last.
SC	Expoiconazole	125 g/kg Epoxicona 1% Agrilan 755 10% Ethylan 954 2,5% Morwet D-425 Water up to 100%	Mill the pre-mix made of water, Morwet D-425 and active to desired particle size. Add Agrilan 755 and Ethylan 954 under stirring.
SC	Thiacloprid 480	480 g/l Thiacloprid 0,5% Agrilan 755 2,5% Morwet D-425 Water up to 100%	Mill the pre-mix made of water, Morwet D-425 and active to desired particle size. Add Agrilan 755 under stirring.
SE	Acetochlor/ Terbutylazine	44% Acetochlor 20% Terbutylazine 2% Agrilan 755 5% Berol 937 HFP Water up to 100%	Mill the pre-mix made of water and Terbutylazine to desired particle size. Mix Acetochlor and Berol 937HFP and add to the pre-mix under stirring. Add water and Agrilan 755 to final concentration.
OD	Cyhalofop-butyl	20% Cyhalofop-butyl 5% Armid FMPC 3% Agrilan 755 15% Berol 9927 5% CaCarbonate 5% Bentonite Methyl-Oleate to 100%	Mill the pre-mix made of active, methyl oleate and Armid FMPC with Berol 9927 and Bentonite to desired particle size. Add Agrilan 755 and Calcium Carbonate as last under gentle stirring.
OD	Nicosulfuron	4% Nicosulfuron 2% Agrilan 755 5% Ethylan NS 500LQ 2% Ethomeen T/12 8% Berol 192 1,5% Bentone SD-1 Soybean oil to 100%	Mill the pre-mix made of active, soybean oil, surfactants and Bentonite to desired particle size. Add Agrilan 755 and soybean oil to balance
SL	Imidacloprid 200	200 g/l Imidacloprid 4% Agrilan 755 Armid FMPC up to 100%	Dissolve Imidacloprid in Armid FMPC. Add Agrilan 755 under gentle stirring.

Above recipes are meant for guide-line only. It might be necessary to add additional thickeners, defoamers, biocides etc.
Talk to us- we will provide more details!

Epoxiconazole 125 SC

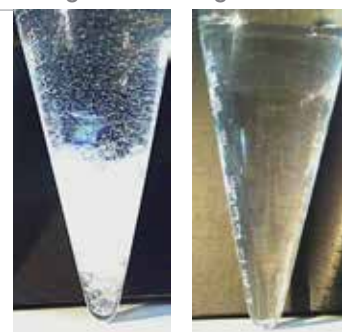
No polymer Agrilan 755 Block copolymer



Products shown after two weeks of storage at 54°C with and without Agrilan 755. Which one do you trust?

Imidacloprid 200 SL

No Agrilan Agrilan 755



Crystal Inhibition: Dilution of Imidacloprid SL into water (342 ppm) to 1% with and without Agrilan 755

Product details

- 30% active
- Clear, light yellow liquid at 25°C
- GHS classification: Not a hazardous substance or mixture
- TSCA & EPA (40 CFR 180.960)
- Polymer according to Reach definition

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Planet Possible: Our commitment to doing more with less

Our success as a company depends on sustainability. At AkzoNobel we have sharpened our focus on sustainability by reviewing our sustainability risks and opportunities against global trends and evaluating how they will impact our customers by 2020. We express the outcome as our Planet Possible approach to sustainability. It's our commitment to creating more value from fewer resources.



We know only too well that our future hinges on our ability to radically do more while using less.

- More innovation, less traditional solutions;
- More renewable energy and materials, less fossil-based;
- More value chain focus, less introverted thinking.

Employing our new strategy of radical efficiency, we work with customers and suppliers to open infinite possibilities to a finite world. Learn more at www.akzonobel.com/planetpossible

At least 20%

is the share of revenue we aim to achieve by 2020 from products with a sustainability advantage for customers.

More than 25%

is the reduction we aim to achieve in our cradle-to-grave carbon foot print per ton of product by 2020.

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