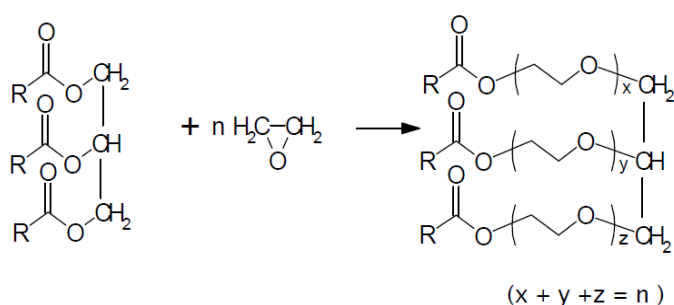


### Description

SEPIGREEN ethoxylated rapeseed oils combine the solvent properties of oils and the emulsifying properties of surfactants. As they are of non-ionic nature, they are compatible with other surfactants. They can be used to formulate most active ingredients used in crop protection products: herbicides, fungicides, insecticides...


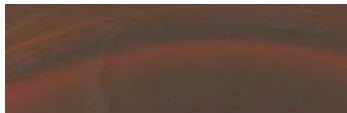

- *Emulsifying carrier*
- *Easy to formulate*
- *Non ionic & pH neutral*
- *Readily biodegradable*



### Identity card

Analytical data	Units	Sepigreen C 100	Sepigreen C 200	Sepigreen C 300	Method
Appearance at 20°C	-	Liquid	Liquid	Liquid	S 52 180
Acid value	mg KOH/g	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	NFT 60 204
Saponification value	mg KOH/g	110 - 130	80 - 100	60 - 90	S 52 008
Iodine value	g I <sub>2</sub> /100g	55 - 75	45 - 60	35 - 55 g	NFT 60 203
Water content	%	0 - 1.00	0 - 1.00	0 - 1.00	S 52 006
Color	VCS	0 - 10.0	0 - 8.0	0 - 10.0	S 52 150
pH 5%	-	6.5 - 7.5	6.5 - 7.5	6.5 - 7.5	NFT 73 206
Viscosity	mPa.s at 25°C	120 - 146	170 - 300	233	Brookfield LVT
Pour point	°C	-10	-10	-10	Estimated
Boiling point	°C	>200	>200	>200	Estimated
Flash point	°C	182	>200	> 100°C (estimated)	Closed cup NFT 60 103

## Main properties

Analytical data	Sepigreen C 100	Sepigreen C 200	Sepigreen C 300
Ionic character	Non ionic	Non ionic	Non ionic
Moles of EO	10	20	30
Liquid's appearance at 25°C			
HLB	6.8	8.9	11.5
Emulsifier type	Water in oil (W/O)	Oil in water (O/W)	Oil in water (O/W)
Characteristics	Coemulsifier oil in water (O/W)	Self-emulsifiable Stabilizer of emulsions	Self-emulsifiable Stabilizer of emulsions
Dispersion in water*	Low	High	Soluble
Critical Miscellar Concentration (CMC) mg/L	21.5	46	64
Surface tension at CMC mN/m	33	43.5	36.1

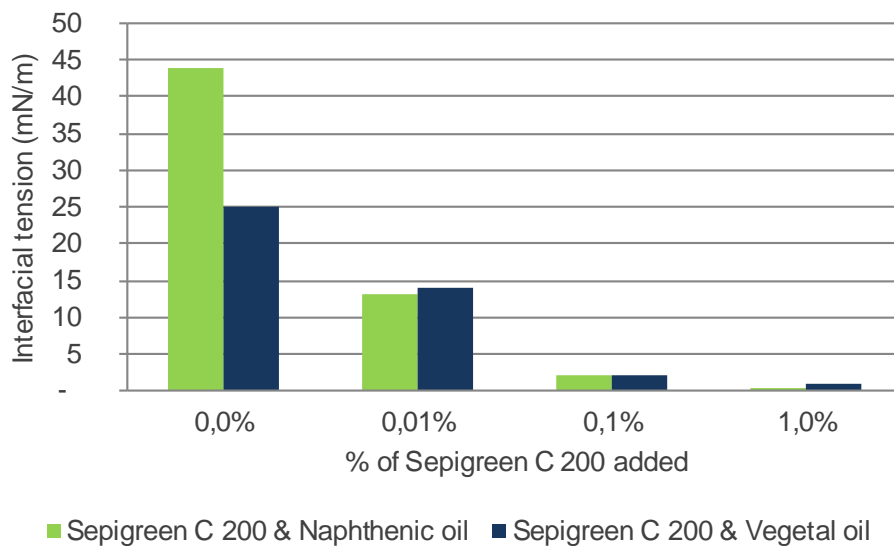
\*Dispersion in water: 5 g of SEPIGREEN were poured without stirring into a 100 mL glass flask containing 45 g of water. The ease of dispersion of the SEPIGREEN in the water was scored as low, high and soluble.

## Emulsifying properties

SEPIGREEN range is suitable to emulsify various types of oils: paraffinic, naphthenic or vegetal.

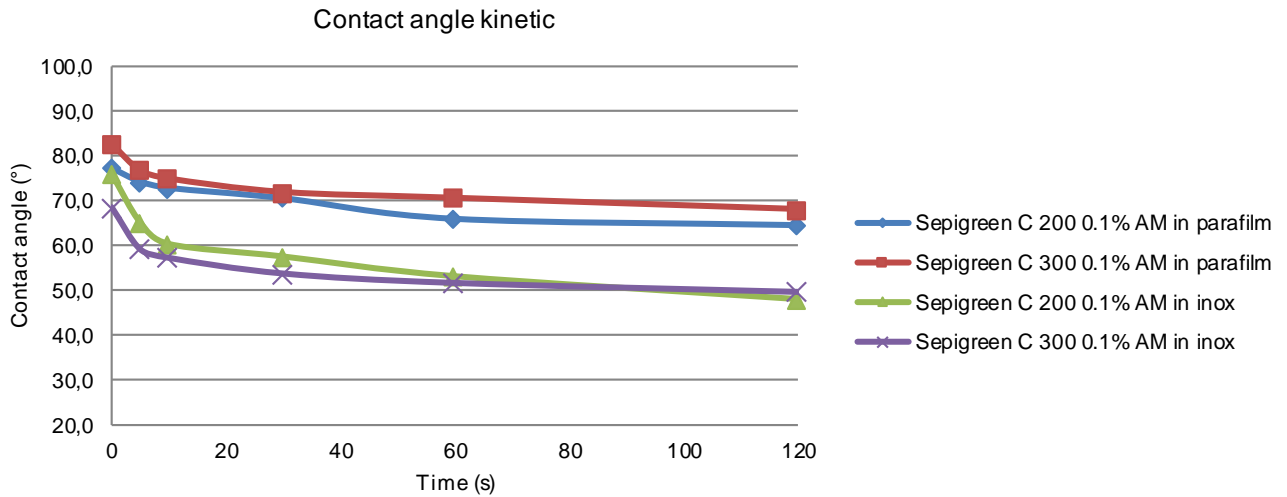
## Self-emulsifying properties

SEPIGREEN C 200 and C 300 are self emulsifying products.

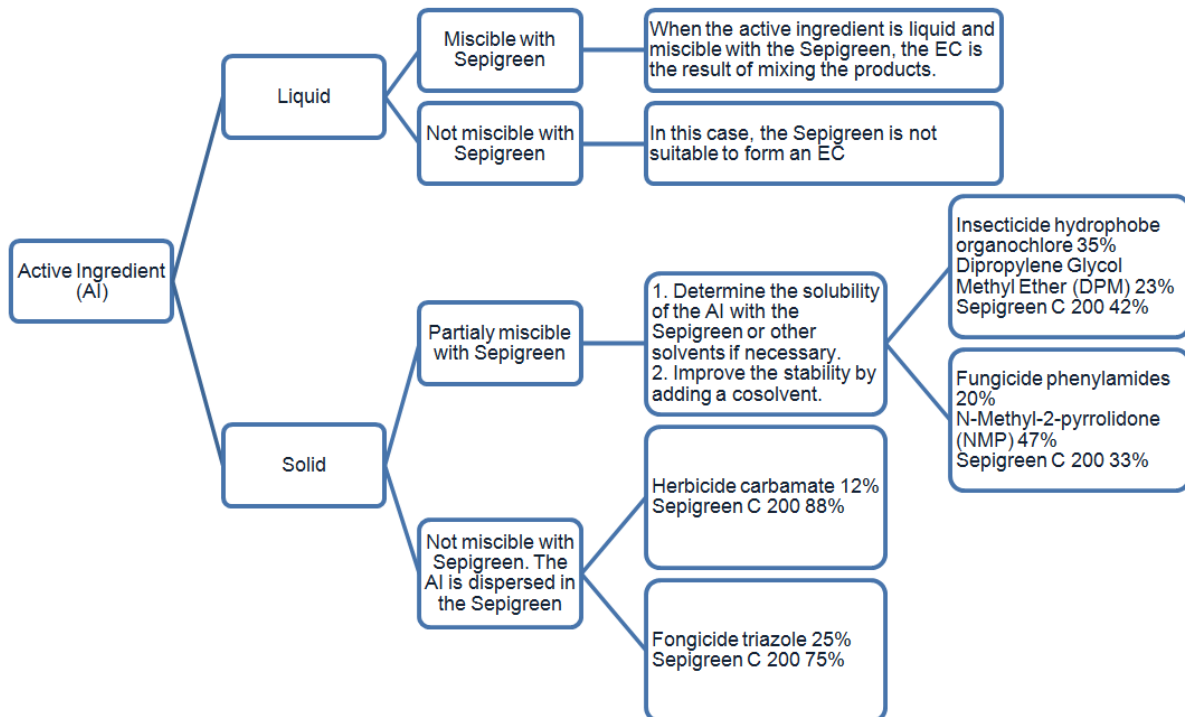


## Wetting properties

SEPIGREEN C 200 and C 300 can contribute to improve the wetting properties of the formulation.



## Emulsifiable Concentrate (EC) examples with Sepigreen C 200



## Toxicological and Eco-toxicological data

### Readily biodegradable

The full range SEPIGREEN is considered as readily biodegradable.

### Low oral toxicity

The low oral toxicity of the SEPIGREEN C 200 was proven by a test performed by an independent laboratory. This result apply by analogy for the oral toxicity of the SEPIGREEN C 100 and SEPIGREEN C 300

SEPIGREEN C 200 LD50 Oral >2000 mg/kg

### Aquatic eco-toxicity

Product	Result	Test	Species	Exposure
SEPIGREEN C 100	Acute EC50 >100 mg/l Fresh water	By analogy	Algae	72 hours
	Acute LC50 >100 mg/l Fresh water	By analogy	Fish	96 hours
SEPIGREEN C 200	Acute EC50 10 to 100 mg/L Fresh water	OCDE 201	Algae – Selenastrum capricornutum	72 hours
	Acute LC50 >100 mg/L Fresh water	OCDE 203	Fish – Onchorhynchus mykiss	96 hours
SEPIGREEN C 300	Acute EC50 >100 mg/l Fresh water	By analogy	Algae	72 hours
	Acute LC50 >100 mg/l Fresh water	By analogy	Fish	96 hours

## Regulatory affairs

REACH: excepted

TSCA: listed

## Packaging

SEPIGREEN range is available in plastic drums of 200 Kg (FP225) and intermediate bulk container of 1000 Kg

HS Code for the Sepigreen is: 3824909799

### SEPPIC S.A

22 Terrasse Bellini  
Paris la Défense  
92806 Puteaux cedex  
France  
Tel. +33 (0)1 42 91 40 00  
info.seppic@airliquide.com

### Nota:

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