

Description

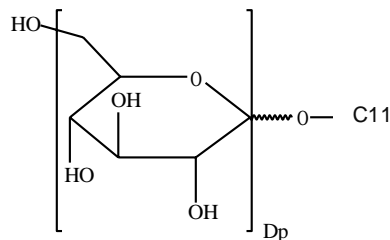
SIMULSOL SL 11 W is a non-ionic non-ethoxylated surfactant prepared from glucose and C11 fatty alcohol that provides high wetting properties.

Alkyl polyglucosides similarity with natural compounds leads to very favorable toxicological and ecotoxicological behavior.

Its applications can be in HI&I (hand dishwashing liquid, liquid disinfectant cleaner, Car care), oilfield (EOR, hydraulic fluids), Agro and firefighting.

- *Non-ionic surfactant*
- *Excellent wetting agent*
- *No cloud point*
- *Readily biodegradable**
- *Suitable for highly alkaline or electrolytic media*

Chemical formula



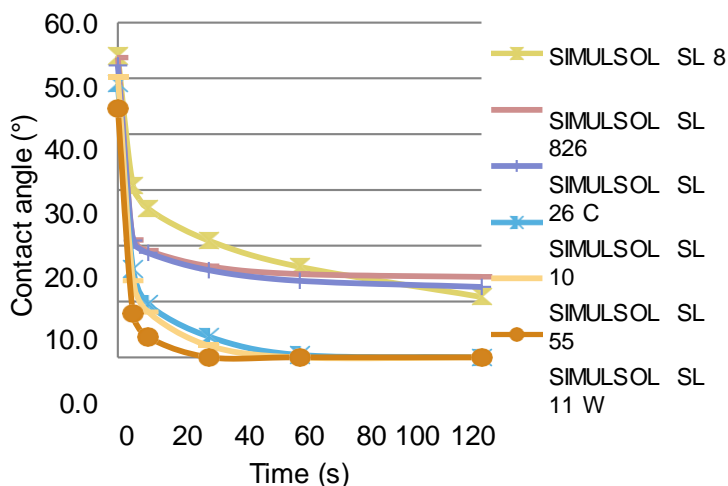
Identity card

Analytical data	Standard limits	Method
Appearance 25°C	Limpid	S 52-180
Color (Gardner)	5 max	S 52 150
HLB	12.4	
Solid content	53 to 57%	95 - EAU
pH	4 to 7	NFT 73-206
Freezing point	-5°C	
Aerobic biodegradability	82.9% (24 days)	OCDE 301F
Shelf life	1095 days	

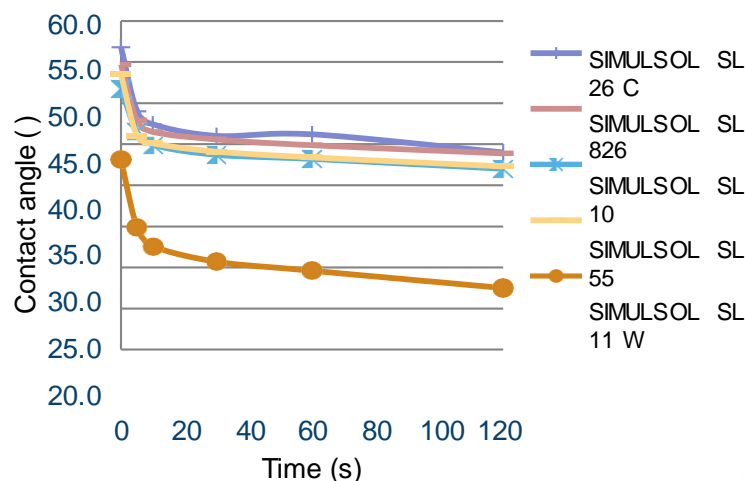
* Readily biodegradable = 60% of biodegradation reached in a 10-d window within the 28-days period of the test

Main properties

1- Wetting power



Contact angle kinetic of a 0.1% of active matter solution in parafilm (non-polar surface)



Contact angle kinetic of a 0.1% of active matter solution in stainless steel (polar surface)

2. Surface active properties

Solution	Surface Tension (γ_s 20° C, mN/m)
2.5 % NaOH	75.0
2.5 % NaOH + 0.2 % Simulsol SL 11 W	26.6
Water	72.0
Water + 0.2% Simulsol SL 11 W	26.1

To prevent any microbiological growth we recommend adding biocides.

3. Extensive chemical compatibility and solubility

SIMULSOL SL 11 W is soluble and compatible in:

- concentrated alkaline solutions (e.g. 10% SIMULSOL SL 11 W can be dissolved in 50% NaOH),
- acidic solutions with pH > 3
- concentrated electrolyte solutions.

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Nota:

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