SIMULSOL AS 48

Non foaming and solubilizing ecofriendly surfactant

Description

SIMULSOL AS 48 is a non-ionic non-ethoxylated surfactant prepared from glucose and alcohol.

Alkylpolyglucoside similarity with natural compounds leads to very favourable toxicological and eco-toxicological properties.

SIMULSOL AS 48 is a non foaming solubilizer, compatible with defoaming surfactants.

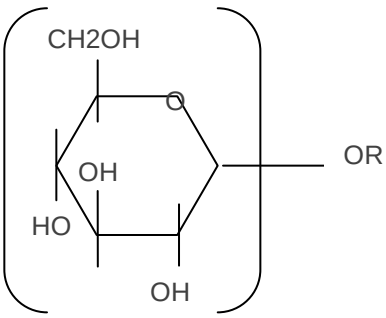
It can be used in a large range of applications: HI&I, Oilfield, Agro, coatings, adhesives and inks.

- *Non foaming alkylpolyglucoside*
- *Solubilizer of non-ionic surfactants in high caustic soda systems*
- *Non ionic*
- *Environmentally safe*

Identity Card

Analytical data	Standard limits
Appearance 20°C	**liquid**
Colour	**Clear**
HLB	**14**
Pour point	**-10°C**
Surface tension at CMC	**30,5**
Dynamic viscosity (mPa at 25°C)	**<500**
Labels	**TSCA** **Suitable for Ecolabel** **DID listed**

Chemical formula



R= C8H17

1- Solubilizing properties

Many non-ionic alkoxylated surfactants are insoluble in the presence of sodium hydroxide and / or electrolytes. It is normally necessary to use solubilizers to obtain a clear formulation.

It can be used in a large range of applications: HI&I, Oilfield, Agro, coatings, adhesives and inks.

To prevent any microbiological growth we recommend adding biocides

1.1 - Example 1 - Solubilization of a concentrate pre-treatment formulation in high alkaline liquor

SIMULSOL NW 342	5g/l
SIMULSOL T 300 CT	5g/l
CAUSTIC SODA flakes	10 – 20 g/l
SIMULSOL AS 48	16 /l

1.2. - Example 2 – How to boost the wetting power of a mercerising agent.

By using MERSITOL 2434 AP alone in a 30°Bé solution, the resulting wetting power ("hawks" test) is 68s.

By addition of 10% SIMULSOL AS 48 the wetting power is improved dramatically down to 32s.

2. toxicological and ecotoxicological data

- Fully biodegradable :

According to Sturm test (OCDE 301 B) : SIMULSOL AS 48 is fully biodegradable, 78% CO2 generation is observed after 28 days.
(T. MADSEN and all, JAOCS, VOL73, N°7, 929-933, 1996).

- Aquatic toxicity :
  - Kirchneria subcapitala : EC50 (72h) = 1543 mg/l, NOEC = 100 mg/l
  - Daphnia magna : EC50 (48h) = 557 mg/l.
  - Brachydanio rerio : LC50 (96h) = 558 mg/l

(T. MADSEN and all, JAOCS, VOL73, N°7, 929-933, 1996).

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