

EMULDAC ALCS-100 SC

Technical Data Sheet No. 2007 – April 2019



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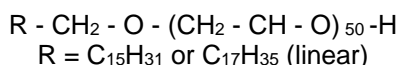


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Product Description

EMULDAC ALCS-100 SC is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1618S and ethylene oxide (about 50 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 68439-49-6

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Flakes
√ Colour (50% m/m Isopropanol)	MPL 1002.0	APHA	≤ 70
Physical state changement	MPL 1001.0	°C	52 – 56
√ Cloud point (1% in 10% NaCl)	MPL 2001.0	°C	74 – 78
√ Hydroxyl number	MPL 1010.0	mg KOH / g	21 – 27
Molecular weight	Calculated	g/mol	2.080 – 2.670
√ pH (5%)	MPL 1006.0	-	5,0 – 7,0
Free Water (Karl Fischer)	MPL 1007.0	% mass	≤ 0,80

√ value reported on inspection certificate.

¹ specification No. 3310 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	89
HLB	Calculated	-	17,8
Viscosity at 70°C	ASTM D445 / ASTM D7042	cSt	102
Flash point	ASTM D 93	°C	> 125

RCM and MPL are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.



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Main Applications

EMULDAC ALCS-100 SC is used as dispersant in industrial applications, in particular in emulsion polymerizations as dispersant for vinyl and acrylic monomers.

In the textile field EMULDAC ALCS-100 SC is used as dispersant for dyes and pigments.

In the detergency field EMULDAC ALCS-100 SC is suitable toilet rim blocks.

In the personal care field EMULDAC ALCS-100 SC is used as O/W emulsifier in a broad range of pH and as dispersant for "hair-dyeing" formulations.

Handling and Storage

EMULDAC ALCS-100 SC should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 60°C, it is preferable to avoid heating above 65°C and to store under nitrogen in order to minimise yellowish phenomena.

EMULDAC ALCS-100 SC is solid at room temperature and it becomes homogeneous at temperature about 60°C. If EMULDAC ALCS-100 SC is packaged, it should be stored in a cool location in sacks or containers made of plastic materials impermeable to moisture.

Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

EMULDAC ALCS-100 SC is generally supplied in drums, details on available packaging can be obtained from sales department.

Data regarding safety, transport classes, toxicology and biodegradability of the product can be obtained from the corresponding material safety data sheet.

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