

# EMULDAC AS-25 RSPO

Technical Data Sheet No. 2016 – December 2020



**sasol**

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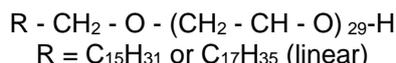


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## Product Description

EMULDAC AS-25 RSPO is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1618S and ethylene oxide (about 29 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 68439-49-6  
EINECS no. 931-992-1  
INCI CETEARETH-25

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	ASTM e284	-	Solid or flakes
√ Colour (50% m/m Isopropanol)	EN 1557	APHA	≤ 70
√ Cloud point (1% in 10% NaCl)	EN 1890	°C	76 – 80
√ Hydroxyl number	EN 13926	mg KOH / g	33 – 39
Molecular weight	Calculated	g/mol	1.440 – 1.700
√ pH (5%)	EN 1262	-	5,0 – 7,0
Free Water (Karl Fischer)	EN E203	% mass	≤ 0,80

√ value reported on inspection certificate.

<sup>1</sup> specification No. 3306 rev. 1 of December 10<sup>th</sup> 2020. Provisional specification.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	83
HLB	Calculated	-	16,6
Pour point	ASTM D 97	°C	47
Viscosity at 70°C	ASTM D7042	cSt	56
Density at 70°C	ASTM D7042	kg/m <sup>3</sup>	980
Flash point	ASTM D 93	°C	> 125

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



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## Further information

### Heavy metal

Arsenic (As) less than 1 mg/kg	Cadmium (Cd) less than 1 mg/kg
Cobalt (Co) less than 1 mg/kg	Chromium (Cr) less than 1 mg/kg
Copper (Cu) less than 1 mg/kg	Iron (Fe) less than 2 mg/kg
Manganese (Mn) less than 1 mg/kg	Nickel (Ni) less than 1 mg/kg
Lead (Pb) less than 1 mg/kg	Tin (Sn) less than 1 mg/kg
Strontium (Sr) less than 1 mg/kg	Zinc (Zn) less than 1mg/kg

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

### Preservative

EMULDAC AS-25 RSPO does not contain any preservative. EMULDAC AS-25 RSPO is not susceptible to microbial growth because of extremely low water content.

Property	Test Method	Unit	Typical Value
Total Aerobic Microbial Count	Eu.Ph. 5.1.4	CFU/g	< 100
Total Yeasts/Moulds Count	Eu.Ph. 5.1.4	CFU/g	< 10

Microbiological control test is periodically done; data given here have to be considered as typical.

### Antioxidants

EMULDAC AS-25 RSPO does not contain any antioxidant.

### Pesticides

EMULDAC AS-25 RSPO does not contain any pesticide.

### Product origin

EMULDAC AS-25 RSPO is manufactured from following raw materials:

- Alcohols C<sub>16</sub> and C<sub>18</sub> linear with vegetable origin
- Ethylene oxide with synthetic origin

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## Main Applications

EMULDAC AS-25 RSPO is used as dispersant in industrial applications, in particular in polyester dyeing processes and emulsion polymerizations.

In the textile field EMULDAC AS-25 RSPO is used as dispersant for dyes and pigments.

In the detergency field EMULDAC AS-25 RSPO is suitable for automatic dishwashing tablets and toilet rim blocks.

In the personal care field EMULDAC AS-25 RSPO is used as O/W emulsifier in a broad range of pH and as dispersant for "hair-dyeing" formulations.

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## Handling and Storage

EMULDAC AS-25 RSPO should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 50°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.

EMULDAC AS-25 RSPO is solid at room temperature and it becomes homogeneous and transparent at temperature about 50°C.

If EMULDAC AS-25 RSPO is packaged, it should be stored in a cool location in sacks or containers made of plastic materials impermeable to moisture.

At room temperature EMULDAC AS-25 RSPO is water soluble up to 15 weight%.

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

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## Packaging

EMULDAC AS-25 RSPO is generally supplied in sacks, details on available packaging can be obtained from sales department.

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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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