

EMULGANTE OS

Technical Data Sheet No. 2015 – January 2020



Distribuito da:



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Product Description

EMULGANTE OS is a blend of fatty alcohol polyethyleneglycol ether, based on NAFOL 1618S - ethylene oxide and polyethylene glycol. It is manufactured in Terranova dei Passerini (LO) plant.

CAS registry no. 68439-49-6, 25322-68-3
EINECS no. 931-992-1

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Flakes
√ Colour (50% w/w in Isopropanol)	EN 1557	APHA	≤ 70
√ Hydroxyl number	EN 13926	mg KOH / g	30 – 38
Molecular weight	Calculated	g/mol	1.475 – 1.870
√ pH (5%)	EN 1262	-	5,0 – 7,0
Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,80

√ value reported on inspection certificate.

¹ specification No. 3350 rev. 2 of June 20th 2019.

Additional Properties

Property	Test Method	Unit	Typical Value
Pour point	ASTM D 97	°C	55
Viscosity at 70°C	ASTM D7042	cSt	93
Density at 70°C	ASTM D7042	g/cm ³	1,034
Flash point	ASTM D 93	°C	> 125

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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

EMULGANTE OS does not contain any preservative. EMULGANTE OS 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

EMULGANTE OS does not contain any antioxidant.

Pesticides

EMULGANTE OS does not contain any pesticide.

Product origin

EMULGANTE OS is manufactured from following raw materials:

- Alcohols C₁₆ and C₁₈ linear with vegetable / synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

EMULGANTE OS in water solution at 50% w/w does not yield gel formation and becomes a stable solution when cooling up to 5°C, so it can be used in high concentrate formulation without gel formation.

EMULGANTE OS is used as dispersant in industrial applications, in particular in polyester dyeing processes and emulsion polymerizations.

In the textile field, EMULGANTE OS is used as dispersant for dyes and pigments.



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Handling and Storage

EMULGANTE OS 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.

EMULGANTE OS is solid at room temperature and it becomes liquid at temperature above 55°C.

If EMULGANTE OS 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

EMULGANTE OS is generally supplied in sacks, 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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