

MARLIPAL 31-685

Technical Data Sheet No. 1206 – March 2019



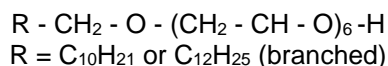
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Product Description

MARLIPAL 31-685 is a fatty alcohol polyethyleneglycol ether, based on C11 branched and linear- C13 branched alcohol and ethylene oxide (about 6 moles) and diluted with 15 weight% water. It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



EINECS no. 949-938-0
INCI C11-13 PARETH-6

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (10% in BDG 25%) (+)	RCM 3646	°C	68 – 69
√ pH (5%) (+)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	14,0 – 16,0

√ value reported on inspection certificate.

¹ specification No. 1974 rev. 2 of February 5th 2007.

(+) values referred to the product not diluted

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content (+)	Calculated	%w/w	56
HLB (+)	Calculated	-	11,2
Hydroxyl number (+)	EN 13926	mg KOH / g	128
Average Molecular weight (+)	Calculated	g/mol	437
Polyethylene glycols (+)	EN 12582	% mass	1,5
Pour point	ASTM D97	°C	– 4
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	960
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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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

MARLIPAL 31-685 does not contain any preservative. MARLIPAL 31-685 is not susceptible to microbial growth because of 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

MARLIPAL 31-685 does not contain any antioxidant.

Pesticides

MARLIPAL 31-685 does not contain any pesticide.

Product origin

MARLIPAL 31-685 is manufactured from following raw materials:

- Alcohols C₁₁ and C₁₃ branched with synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

MARLIPAL 31-685 is used as emulsifier agent for W/O or O/W emulsions, it can be used as detergent in textile and leather applications, as emulsifier in agrochemical applications.

MARLIPAL 31-685 has a good emulsification behaviour regarding to the most common lubricant oils used. MARLIPAL 31-685 is suitable for NPE6 replacement.



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Handling and Storage

MARLIPAL 31-685 should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 40°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.

MARLIPAL 31-685 is a clear liquid at room temperature it becomes a solid wax at temperature lower than -4°C.

At room temperature MARLIPAL 31-685 is not water soluble.

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

Packaging

MARLIPAL 31-685 is generally supplied in plastic 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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