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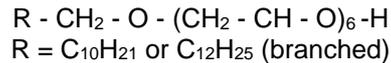
# MARLIPAL 31-685

Technical Data Sheet No. 1206 – March 2019

**SASOL**

## 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 <sup>1</sup>
√ 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.

<sup>1</sup> specification No. 1974 rev. 2 of February 5<sup>th</sup> 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 <sup>3</sup>	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 C<sub>11</sub> and C<sub>13</sub> branched with synthetic origin
- Ethylene oxide with synthetic origin

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## 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.

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## Packaging

MARLIPAL 31-685 is generally supplied in plastic drums, 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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