



# MARLIPAL 31-60

Technical Data Sheet No. 1201 – March 2019

**sasol**

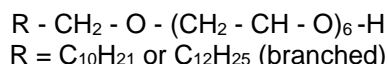
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## Product Description

MARLIPAL 31-60 is a fatty alcohol polyethyleneglycol ether, based on C11 branched and linear – C13 branched alcohol and ethylene oxide (about 6 moles). 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	≤ 0,50

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1971 rev. 2 of January 29<sup>th</sup> 2007.

## 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	15
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	18
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	950
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

MARLIPAL 31-60 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 31-60 has a good emulsification behaviour regarding to the most common lubricant oils used.

MARLIPAL 31-60 is suitable for NPE6 replacement.

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## Handling and Storage

MARLIPAL 31-60 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 31-60 is a cloudy liquid at room temperature it becomes a solid wax at temperature lower than 15°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 15 weight% water to obtain a clear liquid up to a temperature about -4 C°.

At room temperature MARLIPAL 31-60 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 31-60 is generally supplied in 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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