

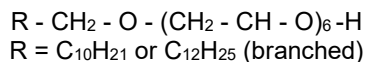


MARLIPAL 31-60

Technical Data Sheet No. 1201 – February 2023

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 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	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 1971 rev. 2 of January 29th 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	13
Viscosity at 40°C	ASTM D445 / ASTM D7042	cSt	24
Density at 40°C	ASTM D7042 / ASTM D4052	kg/m ³	959
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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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.

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.

Over time the product can settle generating different layers of inhomogeneous material. This is not a sign of poor product quality, but it is a common feature of many non-ionic surfactants.

Products that have begun to precipitate should be reconstituted by gentle heating, at about 40°C, and mixing. The temperature must not be allowed to exceed 50°C.

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

Packaging

MARLIPAL 31-60 is generally supplied in 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.

Sasol Italy S.p.A.

Headquarters

Viale Forlanini, 23

20134 Milano, Italy

Phone +39-02 58453 1

Fax +39-02 58453 285

Technical Customer Support

Via E. Mattei, 4

26827 Terranova dei Passerini (LO), Italy

Phone +39-0377 463 1

Fax +39-0377 463 226

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