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MARLOX OP-1

Technical Data Sheet No. 2811 – November 2015

SASOL

Product Description

MARLOX OP-1 is a fatty alcohol poly-glycol ether, based on LIAL 111, ethylene oxide and propylene oxide. It is manufactured in Terranova dei Passerini (LO) plant.

EINECS no. 940-634-3

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Clear liquid
√ Colour	RCM 3668	APHA	≤ 100
√ Cloud point (1% in water)	RCM 3646	°C	36 – 38
√ pH (5%)	RCM 3645	-	4,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 1325 rev. 2 of January 29th 2007.

Additional Properties

Property	Test Method	Unit	Typical Value
Average Molecular weight	Calculated	g/mol	740
Viscosity at 25°C	ASTM D445 / ASTM D7042	cSt	64
Density at 25°C	ASTM D7042 / ASTM D4052	kg/m ³	992
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

MARLOX OP-1 is a very low foaming wetting agent, used in formulations for textile processing (pre-treatment and dyeing) and textile finishing where the foam formation cannot be controlled with standard non-ionic alcohol ethoxylates.

In detergency field MARLOX OP-1 is used primary low foaming surfactant and rinse aid agent in Automatic Dish Washing. MARLOX OP-1 is also used as wetting agent with very low foaming profile in Hard Surface Cleaners formulations and I&I field as well.

MARLOX OP-1 can be used in extreme agitated systems like e.g. in jet dyeing, due to its low foaming behaviour.

Handling and Storage

MARLOX OP-1 should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 30°C, it is preferable to avoid heating above 50°C and to store under nitrogen in order to minimise yellowish phenomena.

MARLOX OP-1 is a clear liquid at room temperature it becomes a solid wax at temperature lower than 0°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 5 weight% water to obtain a clear liquid up to a temperature about -10 C°.

MARLOX OP-1 is soluble in water at room temperature at any concentration.

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

Packaging

MARLOX OP-1 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.

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