

BIODAC 510

Technical Data Sheet No. 1103 – January 2020



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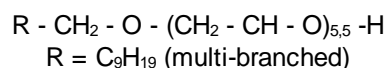


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Product Description

BIODAC 510 is a fatty alcohol polyethyleneglycol ether, based on iso-decanol and ethylene oxide (about 5,5 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 78330-20-8
EINECS no. 932-183-6

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% water)	RCM 3646	°C	36,0 – 38,0
Hydroxyl number	RCM 3851	mg KOH / g	133 – 137
Molecular weight	Calculated	g/mol	409 – 422
Polyethylene glycols	RCM 1412	% mass	≤ 3,0
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,5

√ value reported on inspection certificate.

¹ specification No. 1030 rev. 2 of May 2nd, 2007.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	62
HLB	Calculated	-	12,4
Pour point	ASTM D97	°C	6
Viscosity at 25°C	ASTM D7042	cSt	39
Viscosity at 50°C	ASTM D7042	cSt	15
Density at 50°C	ASTM D7042	kg/m ³	960
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

BIODAC 510 is an outstanding wetting agent, with good degreasing performance. It is highly performing for APC formulations.

Handling and Storage

BIODAC 510 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.

BIODAC 510 is a cloudy liquid at room temperature, 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 -10°C.

At room temperature BIODAC 510 is water soluble up to 50 weight%.

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

Packaging

BIODAC 510 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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