

BIODAC 410

Technical Data Sheet No. 1102 – November 2015



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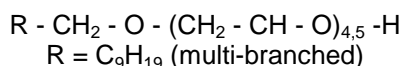


Tellerini s.p.a.

Via Bonazzi, 36
40013 Castel Maggiore (BO)
Tel: +39 051 6322111
Fax: +39 051 715380
sicurezza@tellerini.it
www.tellerini.it

Product Description

BIODAC 410 is a fatty alcohol polyethyleneglycol ether, based on iso-decanol and ethylene oxide (about 4,5 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 (10% in BDG at 25°C)	RCM 3646	°C	67,0 – 68,0
Hydroxyl number	RCM 3851	mg KOH / g	150 – 155
Molecular weight	Calculated	g/mol	362 – 374
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. 1020 rev. 2 of March 31st, 2007.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	57
HLB	Calculated	-	11,4
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	13
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	950
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 410 due to its low number of EO (low HLB value) is mainly used as a co-emulsifier agent for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with high HLB value. BIODAC 410 is a low foaming surfactant with good wetting properties.

Handling and Storage

BIODAC 410 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 410 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 the product is not water soluble.

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

Packaging

BIODAC 410 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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