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BIODAC 2-32-95%

Technical Data Sheet No. 2820 – November 2018

SASOL

Product Description

BIODAC 2-32-95% is a fatty alcohol poly-glycol ether, based on LIAL 111, ethylene oxide and propylene oxide and diluted with 5 weight% water.

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	34 – 36
√ pH (5%)(+)	RCM 3645	-	4,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	4,0 – 6,0

√ value reported on inspection certificate.

¹ specification No. 1085 rev. 1 of July 18th 2014.

(+) values referred to the product not diluted

Additional Properties

Property	Test Method	Unit	Typical Value
Hydroxyl number (+)	RCM 3851	mg KOH / g	85 – 90
Molecular weight (+)	Calculated	g/mol	623 – 660
Viscosity at 40°C	ASTM D7042	cSt	18
Density at 40°C	ASTM D7042	g/cm ³	0,960
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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Further information

Heavy metal

Arsenic (As) less than 1 mg/kg	Cadmium (Cd) less than 1 mg/kg
Cobalt (Co) less than 1 mg/kg	Chromium (Cr) less than 1 mg/kg
Copper (Cu) less than 1 mg/kg	Iron (Fe) less than 2 mg/kg
Manganese (Mn) less than 1 mg/kg	Nickel (Ni) less than 1 mg/kg
Lead (Pb) less than 1 mg/kg	Tin (Sn) less than 1 mg/kg
Strontium (Sr) less than 1 mg/kg	Zinc (Zn) less than 1mg/kg

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

Preservative

BIODAC 2-32-95% does not contain any preservative. BIODAC 2-32-95% is not susceptible to microbial growth because of low water content.

Property	Test Method	Unit	Typical Value
Total Aerobic Microbial Count	Eu.Ph. 5.1.4	CFU/g	< 100
Total Yeasts/Moulds Count	Eu.Ph. 5.1.4	CFU/g	< 10

Microbiological control test is periodically done; data given here have to be considered as typical.

Antioxidants

BIODAC 2-32-95% does not contain any antioxidant.

Pesticides

BIODAC 2-32-95% does not contain any pesticide.

Product origin

BIODAC 2-32-95% is manufactured from following raw materials:

- Alcohols C₁₁ linear and branched with synthetic origin
- Ethylene oxide with synthetic origin
- Propylene oxide with synthetic origin

Main Applications

BIODAC 2-32-95% can be used in extreme agitated systems due to its low foaming behaviour.

In detergency field BIODAC 2-32-95% is used primary low foaming surfactant and rinse aid agent in Automatic Dish Washing.

BIODAC 2-32-95% is also used as wetting agent with very low foaming profile in Hard Surface Cleaner formulations.



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Handling and Storage

BIODAC 2-32-95% 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.

BIODAC 2-32-95% is a clear liquid at room temperature it becomes a solid wax at temperature lower than -10°C. BIODAC 2-32-95% is soluble in water at room temperature.

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

Packaging

BIODAC 2-32-95% 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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