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EMULDAC AS-80

Technical Data Sheet No. 2014 – April 2020

Product Description

EMULDAC AS-80 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1618S and ethylene oxide (about 80 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:

$$R - CH_2 - O - (CH_2 - CH - O)_{80} - H$$
$$R = C_{15}H_{31} \text{ or } C_{17}H_{35} \text{ (linear)}$$

CAS registry no. 68439-49-6
EINECS no. 931-992-1

Sales Specification

	Property	Test Method	Unit	Guaranteed Value[1]
√	Appearance at 25°C	Visual	-	White flakes
√	Cloud point (1% in 10% NaCl)	RCM 3646	°C	73 – 77
	Hydroxyl number	RCM 3851	mg KOH / g	15 – 25
√	pH (5%)	RCM 3645	-	5,0 – 7,0

√ value reported on inspection certificate.
[1] specification No. 3330 rev. 2 of November 13th 2009.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	93
HLB	Calculated	-	18,5
Pour point	ASTM D 97	°C	57
Viscosity at 70°C	ASTM D7042	cSt	160
Density at 70°C	ASTM D7042	kg/m^3	1.060
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

EMULDAC AS-80 is used as dispersant for dyes and pigments in the textile field.
In the detergency field EMULDAC AS-80 is suitable for automatic dishwashing tablets and toilet rim blocks.
In the personal care field EMULDAC AS-80 is used as O/W emulsifier in a broad range of pH and as dispersant for “hair-dyeing” formulations.

Handling and Storage

EMULDAC AS-80 should preferably be stored in stainless steel tanks.
It is suggested to keep the product at temperature below 50°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.
EMULDAC AS-80 is solid at room temperature and it becomes homogeneous at temperature about 55°C.
If EMULDAC AS-80 is packaged, it should be stored in a cool location in sacks or containers made of plastic materials impermeable to moisture.
Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

EMULDAC AS-80 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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