

EMULGANTE CO-55

Technical Data Sheet No. 2104 – November 2015



sasol

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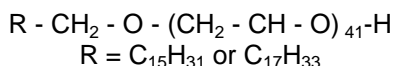


Tellerini s.p.a.

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

Product Description

EMULGANTE CO-55 is a fatty alcohol polyethyleneglycol ether, based on cetyl-oleyl alcohol and ethylene oxide (about 41 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 68920-66-1

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Flakes
√ Colour (50% m/m Isopropanol)	RCM 3668	APHA	≤ 70
√ Iodine number	RCM 3848	gr Iodine / 100 gr	5,0 – 8,0
√ Hydroxyl number	RCM 3851	mg KOH / g	25 – 30
Molecular weight	Calculated	g/mol	1.870 – 2.244
√ pH (5%)	RCM 3645	-	5,0 – 7,0
Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,80

√ value reported on inspection certificate.

¹ specification No. 3090 rev. 2 of April 30th 2008.

Additional Properties

Property	Test Method	Unit	Typical Value
Cloud point (1% in 10% NaCl)	EN 1890-05	°C	77
Ethylene Oxide content	Calculated	%w/w	90
HLB	Calculated	-	18
Viscosity at 70°C	ASTM D445 / ASTM D7042	cSt	87
Density at 70°C	ASTM D7042 / ASTM D4052	kg/m ³	1.050
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

EMULGANTE CO-55 is used as emulsifier and dispersing agent in industrial application, in particular as latex stabilizer in emulsion polymerization (vinyl and acrylic).

In textile field EMULGANTE CO-55 is used as dispersing agent for dyeing process.

Handling and Storage

EMULGANTE CO-55 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.

EMULGANTE CO-55 is solid at room temperature and it becomes homogeneous and transparent at temperature higher than 48°C.

If EMULGANTE CO-55 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

EMULGANTE CO-55 is generally supplied in sacks, 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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