

EMULGANTE EL-18

Technical Data Sheet No. 3203 – October 2022



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Product Description

EMULGANTE EL-18 is a castor oil polyethyleneglycol ether, (about 23 moles of ethylene oxide).
It is manufactured in Terranova dei Passerini (LO) plant.

CAS registry no. 61791-12-6

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Clear liquid
√ Colour	RCM 3668	Gardner	≤ 5,0
√ Cloud point (10% in BDG at 25%)	RCM 3646	°C	65 – 67
Saponification number	RCM 3820	mg KOH / g	78 – 88
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 4020 rev. 2 of November 13th 2009.

Additional Properties

Property	Test Method	Unit	Typical Value
Dioxane	RCM 1124	ppm	< 1.000
HLB	Calculated	-	10,4
Average Molecular weight	calculated	g/mol	2.000
Pour point	ASTM D 97	°C	- 3
Viscosity dynamic at 25°C	ASTM D7042	mPas	419
Viscosity dynamic at 40°C	ASTM D7042	mPas	190
Density at 25°C	ASTM D7042	kg/m ³	1.035
Density at 50°C	ASTM D7042	kg/m ³	1.020
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

EMULGANTE EL-18 is used as dispersing agent for pigment and clay.
In industrial applications EMULGANTE EL-18 is used as rewetting agent for leather, as softener and dyeing assistant for paint and paper.

Handling and Storage

EMULGANTE EL-18 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.
EMULGANTE EL-18 is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.
Avoid contact with strong oxidizers, strong acids and strong bases.
Shelf-life is 24 months from production date for product in its original and sealed packaging.

Packaging

EMULGANTE EL-18 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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