

# EMULGANTE EL-80%

Technical Data Sheet No. 3200 – October 2022



Distribuito da:



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## Product Description

EMULGANTE EL-80% is a castor oil polyethyleneglycol ether, (about 50 moles of ethylene oxide) and diluted with 20 weight% water.  
It is manufactured in Terranova dei Passerini (LO) plant.

CAS registry no. 61791-12-6

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	Visual	-	Clear liquid
√ Colour	RCM 3668	Gardner	≤ 5,0
√ Cloud point (1% in water) (+)	RCM 3646	°C	80 – 85
√ pH (5%) (+)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	19,0 – 21,0

√ value reported on inspection certificate.

<sup>1</sup> specification No. 4055 rev. 1 of November 17<sup>th</sup> 2004.

(\*) values referred to the product not diluted

## Additional Properties

Property	Test Method	Unit	Typical Value
Saponification number (+)	RCM 3820	mg KOH / g	48 – 56
Dioxane	RCM 1124	ppm	< 1.000
HLB (+)	Calculated	-	14,2
Average Molecular weight (+)	calculated	g/mol	3.200

RCM 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

EMULGANTE EL-80% does not contain any preservative. EMULGANTE EL-80% 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

EMULGANTE EL-80% does not contain any antioxidant.

### Pesticides

EMULGANTE EL-80% does not contain any pesticide.

### Product origin

EMULGANTE EL-80% is manufactured from following raw materials:

- Castor oil with vegetable origin
- Ethylene oxide with synthetic origin

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## Main Applications

EMULGANTE EL-80% is used as O/W solubilizer and dispersing agent in industrial applications, in particular as dye equalizing agent for textile auxiliaries.

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## Handling and Storage

EMULGANTE EL-80% 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.

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.

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## Packaging

EMULGANTE EL-80% is generally supplied in drums, details on available packaging can be obtained from sales department.

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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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