

# SAFOL 23 E-6,5-90%

## Technical Data Sheet No. 5107 – April 2020



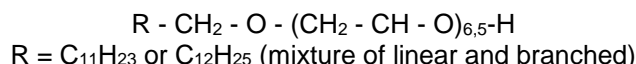
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### Product Description

SAFOL 23 E-6,5-90% is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 6,5 moles) and diluted with 10 weight% water. It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 160901-19-9  
EINECS no. 931-954-4  
INCI C12-13 PARETH-6

### Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 20°C	Visual	-	Clear liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% in water) (+)	RCM 3646	°C	44 – 46
Polyethylene glycols (+)	RCM 1412	% mass	≤ 2,0
√ pH (5%) (+)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	9,0 – 11,0

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1266 rev. 2 of January 1<sup>st</sup> 2011.

(+) values referred to the product not diluted

### Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content (+)	Calculated	%w/w	60
HLB (+)	Calculated	-	12,0
Hydroxyl number (+)	EN 13926	mg KOH / g	114
Molecular weight (+)	Calculated	g/mol	492
Pour point	ASTM D 97	°C	5
Viscosity at 20°C	ASTM D7042	cSt	79
Density at 20°C	ASTM D7042	kg/m <sup>3</sup>	995
Flash point	ASTM D 93	°C	Not applicable as aqueous solution

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

SAFOL 23 E-6,5-90% does not contain any preservative. SAFOL 23 E-6,5-90% 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

SAFOL 23 E-6,5-90% does not contain any antioxidant.

### Pesticides

SAFOL 23 E-6,5-90% does not contain any pesticide.

### Product origin

SAFOL 23 E-6,5-90% is manufactured from following raw materials:

- Alcohols C<sub>12</sub> – C<sub>13</sub> linear and branched with synthetic origin
- Ethylene oxide with synthetic origin

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## Main Applications

SAFOL 23 E-6,5-90% can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications.

In metal working field SAFOL 23 E-6,5-90% shows good dispersing properties as well as good emulsification behaviour regarding to the most common lubricating oils used.

In the detergency field SAFOL 23 E-6,5-90% is used in HDL formulations due to its high emulsification property at medium-low temperature.

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## Handling and Storage

SAFOL 23 E-6,5-90% 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.

SAFOL 23 E-6,5-90% is a clear liquid at room temperature becomes a solid wax at temperature lower than 5°C.

At room temperature SAFOL 23 E-6,5 is water soluble up to 20 weight%.

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

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## Packaging

SAFOL 23 E-6,5-90% is generally supplied in plastic 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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