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SAFOL23 E9

Technical Data Sheet No. 5125 – September 2024

Product Description

SAFOL23 E9 is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 9 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:

$$R - CH_2 - O - (CH_2 - CH - O)_9 - H$$
$$R = C_{11}H_{23} \text{ or } C_{12}H_{25} \text{ (mixture of linear and branched)}$$

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

Sales Specification

	Property	Test Method	Unit	Guaranteed Value[1]
√	Appearance at 20°C	ASTM E284	-	Paste
√	Colour	EN 1557	APHA	≤ 50
√	Cloud point (1% in water)	EN 1890	°C	79 – 82
	Polyethylene glycols	EN 12582	% mass	≤ 2,0
√	pH (5%)	EN 1262	-	5,0 – 7,0
√	Free Water (Karl Fischer)	EN 13267	% mass	≤ 0,20

√ value reported on inspection certificate.
[1] specification No. 1243 rev. 1 of October 1st 2024.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	67
HLB	Calculated	-	13,4
Hydroxyl number	EN 13926	mg KOH / g	96
Molecular weight	Calculated	g/mol	584
Pour point	ASTM D 97	°C	18
Viscosity at 40°C	ASTM D7042	cSt	38
Viscosity at 50°C	ASTM D7042	cSt	28
Density at 40°C	ASTM D7042	kg/m^3	995
Density at 50°C	ASTM D7042	kg/m^3	990
Flash point	ASTM D 93	°C	> 125

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Main Applications

SAFOL23 E9 can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications.
In the detergency field SAFOL23 E9 is used in HDL formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

SAFOL23 E9 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.
SAFOL23 E9 is a cloudy liquid at room temperature becomes a solid wax at temperature lower than 18°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 10 weight% water to obtain a liquid up to a temperature about 10 C°.
At room temperature SAFOL23 E9 is water soluble up to 25 weight%.
Over time the product can settle generating different layers of inhomogeneous material. This is not a sign of poor product quality but it is a common feature of many nonionic surfactants.
Products that have begun to precipitate should be reconstituted by gentle heating, at about 40°C, and mixing. The temperature must not be allowed to exceed 50°C.
Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

SAFOL23 E9 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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