

LIALET 125-5

Technical Data Sheet No. 1703 – January 2019



sasol

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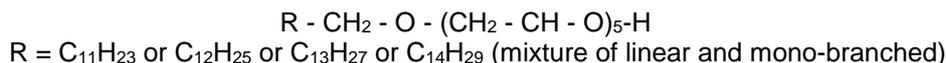


Tellerini s.p.a.

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

Product Description

LIALET 125-5 is a fatty alcohol polyethyleneglycol ether, based on LIAL 125 and ethylene oxide (about 5 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 106232-83-1
EINECS no. 932-186-2
INCI C12-15 PARETH-5

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (10% in BDG at 25%)	EN 1890	°C	67 – 69
√ Hydroxyl number	EN 13926	mg KOH / g	125 – 131
Molecular weight	Calculated	g/mol	428 – 449
Polyethylene glycols	EN 12582	% mass	≤ 3,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 2620 rev. 3 of January 21th 2019.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	52
HLB	Calculated	-	10,4
Pour point	ASTM D97	°C	10 - 15
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	18
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	950
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

LIALET 125-5 can be used as degreasing agent in leather treatment, as emulsifier for W/O emulsions in agrochemicals and in detergency applications.

In metal working field LIALET 125-5 shows good dispersing properties for chip or shaving particles as well as good emulsification behaviour regarding to the most common lubricating oils used.

In the detergency field LIALET 125-5 is used in HDP formulations due to its high emulsification property at medium-low temperature. It is a low foaming surfactant.

Handling and Storage

LIALET 125-5 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.

LIALET 125-5 is a cloudy liquid at room temperature and it becomes homogeneous at temperature about 40°C. LIALET 125-5 becomes a solid wax at temperature lower than 15°C.

At room temperature LIALET 125-5 is not water soluble.

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

Packaging

LIALET 125-5 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.

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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