

# LIALET 125-5

Technical Data Sheet No. 1703 – January 2019



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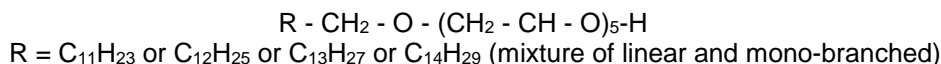


**Tellerini s.p.a.**

Via Bonazzi, 36  
40013 Castel Maggiore (BO)  
Tel: +39 051 6322111  
Fax: +39 051 715380  
[sicurezza@tellerini.it](mailto:sicurezza@tellerini.it)  
[www.tellerini.it](http://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 <sup>1</sup>
√ 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.

<sup>1</sup> specification No. 2620 rev. 3 of January 21<sup>th</sup> 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 <sup>3</sup>	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.

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## 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.

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## Packaging

LIALET 125-5 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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### 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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