



Distribuito da:



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

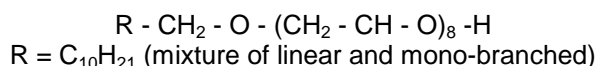
LIALET 111-8

Technical Data Sheet No. 1154 – November 2015

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Product Description

LIALET 111-8 is a fatty alcohol polyethyleneglycol ether, based on LIAL 111 and ethylene oxide (about 8 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 127036-24-2
EINECS no. 603-182-5
INCI UNDECETH-8

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	MPL 1002.0	APHA	≤ 50
Physical state chngement	MPL 1001.0	°C	17 – 23
√ Cloud point (1% in water)	MPL 2001.0	°C	64 – 66
Hydroxyl number	MPL 1010.0	mg KOH / g	106 – 112
Molecular weight	Calculated	g/mol	500 – 530
Polyethylene glycols	MPL 2002.0	% mass	≤ 3,0
√ pH (5%)	MPL 1007.0	-	5,0 – 7,0
√ Free Water (Karl Fischer)	MPL 1006.0	% mass	≤ 0,5

[√] value reported on inspection certificate.

¹ specification No. 1360 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	67
HLB	Calculated	-	13,3
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	20
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	970
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 111-8 has a well-balanced hydrophylic-lipophylic ratio. It is a good emulsifier agent for O/W emulsions.

LIALET 111-8 is a good wetting agent, with good degreasing performance. It improves degreasing performance of household detergent formulations.

The combination of wetting and degreasing properties makes LIALET 111-8 well suited for wool scouring process.

Handling and Storage

LIALET 111-8 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 111-8 is a cloudy liquid at room temperature and it becomes homogeneous and transparent at temperature about 35°C, it becomes a solid wax at temperature lower than 20°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 15 weight% water to obtain a clear liquid up to a temperature about 5 - 10 C°.

At room temperature LIALET 111-8 is water soluble up to 40 weight%.

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

Packaging

LIALET 111-8 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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