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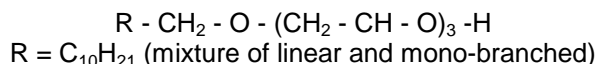
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LIALET 111-3

Technical Data Sheet No. 1151 – November 2015

Product Description

LIALET 111-3 is a fatty alcohol polyethyleneglycol ether, based on LIAL 111 and ethylene oxide (about 3 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-3

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	-2 – +3
√ Cloud point (10% in BDG at 25%)	MPL 2001.0	°C	52 – 53
Hydroxyl number	MPL 1010.0	mg KOH / g	183 – 193
Molecular weight	Calculated	g/mol	290 – 306
Polyethylene glycols	MPL 2002.0	% mass	≤ 2,0
√ 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. 1310 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	43
HLB	Calculated	-	8,5
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	10
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	910
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 111-3 due to its low number of EO (low HLB value) is mainly used as a co-emulsifier agent for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with high HLB value.

LIALET 111-3 shows lubricant as well as antistatic properties.

LIALET 111-3 is a raw material for preparation of carboxylates, phosphonates and fatty esters with good lubricant performances for synthetic fibres.

Handling and Storage

LIALET 111-3 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 111-3 is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.

LIALET 111-3 is not water soluble at room temperature.

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

Packaging

LIALET 111-3 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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