

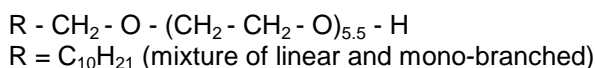


LIALET[®] 111-5.5

Technical Data Sheet No. 1152 – October 2012

Description

LIALET[®] 111-5.5 is a fatty alcohol polyethyleneglycol ether, based on LIAL[®] 111 and ethylene oxide (5.5 moles). It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:



CAS registry no. 127036-24-2
INCI UNDECETH-5,5

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
* Appearance at 25°C	visual	-	cloudy liquid
Physical state changement	MPL 1001.0	°C	5-10
* Colour	MPL 1002.0	APHA	≤ 50
* Cloud point ^a	MPL 2001.0	°C	69-71
Hydroxyl Number	MPL 1010.0	mg KOH/g	138-144
Polyethyleneglycol	MPL 2002.0	% w/w	≤ 2.0
* pH (5% in water)	MPL 1007.0	-	5.0-7.0
* Water (Karl-Fisher)	MPL 1006.0	% w/w	≤ 0.20
Average Molecular Mass	calculated	g/mol	389-406

* values reported on inspection certificate.

¹ specification No. D001330 rev. 2 of July 15th, 2004.

^a 10 wt% in BDG 25 wt% water solution.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	calculated	% w/w	57
HLB	calculated	-	11.4
Viscosity at 50°C	MPL 1004.0	cSt	15
Density at 50°C	MPL 1003.0	kg/l	0.94
Flash point	RCM 3628	°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[®] 111-5.5 is an outstanding wetting agent, with low foaming and good degreasing performance. It is highly performing for All Purpose Cleaner formulations. It is a raw material for preparation of carboxylates.

Handling and Storage

LIALET[®] 111-5.5 should preferably be stored in heated stainless steel tanks. It is a cloudy liquid at room temperature and it becomes homogeneous and transparent at temperature between 20 and 30°C, it becomes a solid wax. at temperature lower than 5°C . It is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena. Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

LIALET[®] 111-5,5 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.

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