

LIALET 111-10

Technical Data Sheet No. 1155 – March 2018



sasol

Distribuito da:



Tellerini s.p.a.

Via Bonazzi, 36

40013 Castel Maggiore (BO)

Tel: +39 051 6322111

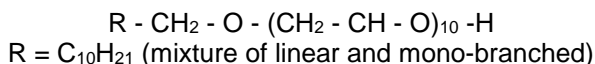
Fax: +39 051 715380

sicurezza@tellerini.it

www.tellerini.it

Product Description

LIALET 111-10 is a fatty alcohol polyethyleneglycol ether, based on LIAL 111 and ethylene oxide (about 10 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-10

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Paste
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% in water)	EN 1890	°C	84 – 86
√ Hydroxyl number	EN 13926	mg KOH / g	88 – 93
Polyethylene glycols	EN 12582	% mass	≤ 3,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,3

√ value reported on inspection certificate.

¹ specification No. 1370 rev. 4 of April 5th 2018.

Additional Properties

Property	Test Method	Unit	Typical Value
Molecular weight	Calculated	g/mol	603 – 637
Ethylene Oxide content	Calculated	%w/w	72
HLB	Calculated	-	14,3
Pour point	ASTM D97	°C	22 – 27
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	28
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	980
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.

**sasol**

LIALET 111-10

Technical Data Sheet No. 1155 – March 2018

Further information

Heavy metal

Arsenic (As) less than 1 mg/kg	Cadmium (Cd) less than 1 mg/kg
Cobalt (Co) less than 1 mg/kg	Chromium (Cr) less than 1 mg/kg
Copper (Cu) less than 1 mg/kg	Iron (Fe) less than 2 mg/kg
Manganese (Mn) less than 1 mg/kg	Nickel (Ni) less than 1 mg/kg
Lead (Pb) less than 1 mg/kg	Tin (Sn) less than 1 mg/kg
Strontium (Sr) less than 1 mg/kg	Zinc (Zn) less than 1mg/kg

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

Preservative

LIALET 111-10 does not contain any preservative. LIALET 111-10 is not susceptible to microbial growth because of absence water content.

Property	Test Method	Unit	Typical Value
Total Aerobic Microbial Count	Eu.Ph. 5.1.4	CFU/g	< 100
Total Yeasts/Moulds Count	Eu.Ph. 5.1.4	CFU/g	< 10

Microbiological control test is periodically done; data given here have to be considered as typical.

Antioxidants

LIALET 111-10 does not contain any antioxidant.

Pesticides

LIALET 111-10 does not contain any pesticide.

Product origin

LIALET 111-10 is manufactured from following raw materials:

- Alcohols C₁₁ linear and branched with synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

LIALET 111-10 is a non-ionic surfactant with good detergent properties.

LIALET 111-10 shows degreasing and anti-irritant performances in DWL, it is suitable for detergent applications in hard surface cleaner and APC formulation.

LIALET 111-10 is used as solubilizing agent for fragrances, oil and perfumes.



sasol

LIALET 111-10

Technical Data Sheet No. 1155 – March 2018

Handling and Storage

LIALET 111-10 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 111-10 is a paste at room temperature and it becomes homogeneous and transparent at temperature about 40 - 50°C, it becomes a solid wax at temperature lower than 25°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 20 weight% water to obtain a clear liquid up to a temperature about 5 - 10 C°.

At room temperature LIALET 111-10 is water soluble up to 30 weight%.

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

Packaging

LIALET 111-10 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

This information is based on our present knowledge and experience. but it is not a guarantee of the performance of our products since the conditions of use are not under our direct control.

However, it implies no liability or other legal responsibility on our part, including any existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. All our business transactions shall be governed exclusively by our General Sales Conditions.

Sasol is a registered trademark of Sasol Ltd. Product trademarks displayed in this document are the property of the Sasol Group of Companies. Users of this document are not permitted to use these trademarks without the prior written consent of their proprietor. All rights not expressly granted are reserved.