

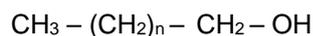

**SASOL**

# LIAL 125

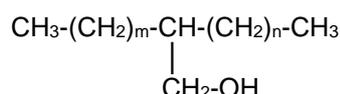
**Technical Data Sheet No. 403 – September 2019**

## Product Description

LIAL 125 is primary linear and mono-branched alcohols mixture with alkyl chain length of 12 to 15 carbon atoms. It is manufactured in Augusta (SR) plant. The chemical structure is the following:



$$n = 10 \div 13$$



$$m + n = 8 \div 11 \text{ and } m, n = 0 \div 11$$

CAS registry no. 90604-40-3  
 EINECS no. 292-334-0  
 INCI C12-15 ALCOHOLS

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	ASTM D 4176	-	Clear liquid
√ Colour	ASTM D 5386 / EN 1557	APHA	10 max
√ Flash point	ASTM D 93	°C	125 min
√ Hydroxyl number	RCM 1101*	mg KOH / g	270 - 276
√ Acid value	ASTM D 664 method B	mg KOH / g	0,10 max
√ Carbonyl number	ISO 1279	mg KOH / g	0,25 max
√ Bromine Index	ASTM D 1492	mg Br <sub>2</sub> / 100g	50 max
√ Water	EN ISO 12937	% mass	0,10 max
√ Hydrocarbons	RCM 1101	% mass	0,15 max
√ Diols	RCM 1402	ppm	1.000 max
√ Carbon distribution	RCM 1101	% mass	
C 11 and lighter			0,5 max
C 12			19 - 25
C 13			28 - 34
C 14			27 - 33
C 15			15 - 21
C 16 and heavier			1,5 max
√ Average molecular mass	RCM 1101	g/mol	204 - 209

√ value reported on inspection certificate.

<sup>1</sup> specification No. SP 1307 rev. 6 of September 15<sup>th</sup> 2019.

\* based on GC method RCM 1101



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## Additional Properties

Property	Test Method	Unit	Typical Value
Density at 20°C	ASTM D7042 / ASTM D 4052	Kg/m <sup>3</sup>	836
Cloud point	ASTM D 5771	°C	12
Puor point	ASTM D 5950 / ASTM D 97	°C	6
Linear Alcohols	RCM 1101	% mass	43
Distillation	ASTM D 86 / ISO 3405		
<i>Initial boiling point</i>		°C	261
<i>Final boiling point</i>		°C	298

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

LIAL 125 is used as raw material to produce ethoxylates, ethoxysulphates, sulphates, phosphates, ester and ethers suitable for several application fields.

LIAL 125 derivatives is the base to manufacture liquid and powder detergents, shampoos, bath foams, textile & leather auxiliaries (wetting, degreasing, scouring agents), plasticizers, binders for paint and coating and lubricant additives.

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## Handling and Storage

It is recommended to keep LIAL 125 in a cool and well ventilated place. LIAL 125 should preferably be stored in stainless steel tanks or steel lined with epoxy-phenolic resins. Avoid materials as aluminium, copper and copper alloys.

It is suggested to store the product at temperature between 25°C and 40°C. It is preferable to avoid heating above 50°C and to store under nitrogen in order to minimise yellowish phenomena.

To prevent oxidation during prolonged storage, it is recommended to blanket the product with nitrogen.

Shelf-life is 12 months from production date for product in its original and sealed packaging.

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## Packaging

LIAL 125 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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