

# Product Fact Sheet

## MEDIALAN<sup>®</sup> LD



Anionic surfactant for the cosmetic industry

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<b>Composition</b>	Lauroyl sarcoside sodium salt
<b>INCI name</b>	Sodium Lauroyl Sarcosinate

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61  
4132 MuttENZ  
Switzerland

### PRODUCT PROPERTIES<sup>1</sup>

<b>Appearance (20 °C)</b>	clear, liquid
<b>Iodine colour number</b>	max. 1.0
<b>pH-value (1 % water solution)</b>	7.0 – 8.5
<b>solid content</b>	29.0 – 31.0 %
<b>Average molecular weight</b>	293 g/mol

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### Manufacture

Reaction of coconut fatty acid chloride with sarcosin (Schotten Baumann).  
Neutralisation with NaOH.

### Profile

Because of its excellent physiological properties and neutral taste Medialan<sup>®</sup> LD is widely used as a foaming agent in dental care preparations, especially in toothpastes. The concentration of Medialan<sup>®</sup> LD in toothpastes is usually in the range of 1 % to 6 %.

As a liquid, Medialan<sup>®</sup> LD does not cause troublesome dusting in processing. Medialan<sup>®</sup> LD combines a good cleansing action with relatively weak degreasing. Thus for the manufacture of hair shampoos and body cleansing products Medialan<sup>®</sup> LD is often best combined as mild co-surfactant with alkyl ether sulphates.

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<sup>1</sup> These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

## Foaming behaviour

Medialan® LD has very good foaming properties especially in soft water and displays interesting synergistic and foam-stabilising properties when combined with other surfactants, e.g. alkyl ether sulphates.

The foaming behaviour of Medialan® LD also depends on the pH of the finished product. It is usually worthwhile to adjust the formulations to a slightly acid pH of between 5.5 and 6.5, for instance with citric acid.

Foam stability in relation to time is also considerably better in the weakly acid than in the alkaline pH range.

Compared with some other surfactants, Medialan® LD has excellent foaming power in electrolyte-containing solutions.

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