

TEGO® Alkanol L 4

Non-ionic surfactant

- Solubilizer for perfume and oils
- Good emulsifying properties
- Good thickening effect in surfactant formulations
- Low foaming

Personal Care

INCI name (CTFA name)

Laureth-4

Chemical and physical properties (not part of specifications)

Form	liquid
HLB value	app. 10

Properties

TEGO® Alkanol L 4 is a non-ionic surfactant. It has good emulsifying and solubilizing properties.

In surfactant systems it functions as a thickening agent.

Application

TEGO® Alkanol L 4 is used in

- shampoos
- body cleansing formulations
- styling products
- skin care preparations
- decorative cosmetics
- deodorants

Packaging

800 kg pallet (4 x 200 kg drums)

Storage

TEGO® Alkanol L 4 tends to cloudiness and crystallization after storage time. This is reversible and has no negative influence on the quality. Short stirring and heating (35–40°C) will provide adequate homogenization.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guide Line Formulations

Deodorant Pump Spray Ze 1/95	
TEGODEO® CW 90 (Zinc Ricinoleate; Tetrahydroxypropyl Ethylenediamine; Laureth-3; Propylene Glycol)	2.0 %
TEGO® Alkanol L 4	6.0 %
Dipropylene Glycol	4.0 %
Perfume	0.9 %
SD Alcohol 39 C	32.0 %
Tetrahydroxypropyl Ethylenediamine	0.5 %
Water	54.2 %
Citric Acid (50 % in water)	0.4 %
Preparation: Add the raw materials in the given order while stirring. Adjust the pH value with citric acid to 5.5.	

Deodorant Roll on Ze 2/95	
Phase A	
TEGO® Carbomer 140 (Carbomer)	1.0 %
Water	55.5 %
SD Alcohol 39 C	32.0 %
Phase B	
TEGODEO® CW 90 (Zinc Ricinoleate; Tetrahydroxypropyl Ethylenediamine ; Laureth-3; Propylene Glycol)	2.0 %
TEGO® Alkanol L 4	4.0 %
Dipropylene Glycol	2.0 %
Triethanolamine	2.5 %
Phase C	
Citric Acid (50 % in water)	1.0 %
Preparation: Disperse TEGO® Carbomer 140 by stirring in cold water. Add ethanol while stirring and afterwards B. Adjust the pH value with C.	

Sun Protecting Ringing Gel Wax with Mica AK 66/3	
Phase A	
Water	47.95 %
Propylene Glycol	2.00 %
Glycerol	11.00 %
ABIL® Soft AF 100 (Methoxy PEG/PPG-7/3 Aminopropyl Dimethicone)	0.50 %
Phase B	
TEGO® Alkanol IC 20 (Isoceteth-20)	14.50 %
ABIL® UV Quat 50 (Polysilicone-19)	2.00 %
TEGO® Alkanol L 4	10.00 %
Paraffinum Perliquidum	6.00 %
TEGOSOFT® TN (C12-15 Alkyl Benzoate)	6.00 %
Titanium Dioxide, Mica, Silica (Timiron Splendid Gold, Merck)	0.05 %
Phase Z	
Perfume	q.s.
Preparation: Heat phases A and B separately to 90 °C. Stir B into A and cool down while stirring. Add the perfume below 55 °C. Fill into (glass) jars at 50 - 55 °C.	

2 Phase Oil Bath FM 10262	
Phase A	
Olive (Olea Europaea) oil	7.0 %
TEGOSOFT® TN (C12-15 Alkyl Benzoate)	20.0 %
Phase B	
Sodium Laureth Sulfate, 28 %	40.0 %
TEGO® Alkanol L 4	2.0 %
Water	21.0 %
REWOTERIC® AM 2 C NM (Disodium Cocoamphodiacetate)	10.0 %
Preservative	q.s.
Preparation: Blend phase A and B separately. Then mix phase B in phase A and adjust the pH value to approximately 6. Finally add preservatives as required. Remarks: 2 Phases: the phase on top looks like a white emulsion, the other phase is clear and yellow.	

F 03/11

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to 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.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.
(Status: April, 2008)