

TEGODEO® HY 77

Deo Active Ingredient

Intended use

Deodorant agents/odor absorbers

Benefits at a glance

- Highly effective deodorant based on the zinc salt of ricinoleic acid
- Especially suitable for deodorant formulations with a high alcohol content
- Usage concentration of 1.5 – 3.0%

INCI (PCPC name)

Zinc Ricinoleate; Triethanolamine;
Dipropylene Glycol; Lactic Acid

Chemical and physical properties (not part of specifications)

Appearance	amber coloured liquid
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Properties/Application

- TEGODEO® HY 77 is a highly effective deodorant based on a zinc salt of ricinoleic acid.
- TEGODEO® HY 77 does not inhibit natural transpiration.
- Deodorants formed during bacterial decomposition of perspiration are chemically fixed.
- TEGODEO® HY 77 has no bactericidal or fungicidal properties and therefore does not interfere with the natural flora of the skin.
- Due to its good deodorising properties TEGODEO® HY 77 is especially suitable for use in deodorant

sprays, deo-sticks, deo-roll-ons and deo-cream formulations with high alcohol content.

Preparation

When water-alcohol pump sprays are formulated a small addition of a citric acid/amine combination acts as a solubilizer. It is then possible to get clear, transparent formulations with common concentrations of solubilizers.

The water content in spray formulations should not exceed 30%.

Recommended usage concentration

1.5 – 3.0%

Packaging

400 kg pallet (16 x 25 kg)

Storage

TEGODEO® HY 77 should be stored at room temperature. Storage below this temperature may result in clouding and increase of viscosity which does not affect the efficiency of TEGODEO® HY 77.

The product becomes clear again after warming up to 60°C. This might take up to 12 hours.

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 case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guideline formulations

Deodorizing Wet Wipe Solution EA-117	
Phase A	
TEGO® Betain F (Cocamidopropyl Betaine)	2.00%
TEGO® Betain 810 (Capryl/Capramidopropyl Betaine)	1.50%
Propylene Glycol	0.75%
REWODERM® LI 63 (PEG-30 Glyceryl Cocoate)	0.50%
Citric Acid Monohydrate	0.50%
TEGODEO® HY 77 (Zinc Ricinoleate; Triethanolamine; Dipropylene Glycol; Lactic Acid)	1.00%
Phase B	
Water	93.65%
Tetrasodium EDTA	0.10%
Citric Acid Monohydrate	to pH 5.5
Preservative, Parfum	q.s.
Preparation:	
<ol style="list-style-type: none"> 1. Combine ingredients of phase A in order with gentle agitation to avoid foaming. Mix well between additions. In this step TEGODEO HY 77 is pre-solubilized to allow for ease of incorporation. 2. Combine the ingredients of phase B. 3. Add phase B to A. 4. Adjust pH to 5.5. 5. Add preservative and fragrance. 	

Deodorant Stick Ze 1/90	
Phase A	
Stearic Acid	5.0%
Alcohol	20.0%
Glycerin	5.0%
Phase B	
Sodium Hydroxide (10% in water)	7.2%
Phase C	
TEGODEO® HY 77 (Zinc Ricinoleate; Triethanolamine; Dipropylene Glycol; Lactic Acid)	1.0%
Propylene Glycol	41.3%
PEG-8	20.0%
Phase D	
Parfum	0.5%
Preparation:	
<ol style="list-style-type: none"> 1. Heat phase A in a flask with reflux up to 70 °C. 2. Add phase B and stir for 15 min. 3. Heat phase C up to 70 °C and add to the flask. 4. Cool down slowly while stirring. 5. Add phase D at 55 °C and fill at 50 °C into the packaging. 	

Deodorant Spray with Propane /Butane	
Ze 3 /90	
TEGODEO® HY 77	1.52%
Cyclomethicone	2.02%
PEG-8	2.00%
SD Alcohol 39 C	36.78%
Propane/Butane 3.5	57.68%
Preparation:	
Add the raw materials in the given order while stirring.	

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Especially concerning Active Ingredients

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