dr. straetmans®

Technical Information

TEGODEO® PY 88 G

The Product: TEGODEO® PY 88 G

TEGODEO® PY 88 G is a highly effective odor absorber based on the zinc salt of ricinoleic acid. It does not inhibit natural transpiration and does not interfere with the natural flora of the skin. Thanks to its deodorizing properties, **TEGODEO® PY 88 G** is especially suitable for any emulsion type of deo formulation.

CHARACTERISTICS

- *INCI: Zinc Ricinoleate*
- Appearance: ivory pellets

- 100% naturally derived; COSMOS approved and compliant with other standards for natural cosmetic; (please contact us for further information)

- Highly effective deodorant ingredient
- Does not inhibit natural transpiration
- No interference with natural flora of the skin

DOSAGE

Product Concept	Dosage
Emulsions	0.5 – 1.5 %

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How to work with TEGODEO® PY 88 G

MANUFACTURING PROCEDURE

Emulsions:

1. Add **TEGODEO® PY 88 G** to the oil phase.
2. Heat up to 80°C.
3. Proceed as usual.

FORMULATION ADVICE

Incompatibility	Cannot be clearly dissolved in oil
	With sodium phytate (white precipitation)
Compatibility	With Tetra sodium glutamate diacetate (Dissolvine GL 47 S), EDTA
Combination with other deodorant actives	Further antimicrobial ingredients like **dermosoft® decalact deo MB** can be added, as well as **dermofeel® TEC eco**, **TEGODEO® A30 eco**, **TEGODEO® PY 88 G** or perfume

APPLICATION IDEAS

Perfectly suitable for emulsion type AP/deo applications.

For more formulation ideas visit us at:
https://www.dr-straetmans.de/en/products

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Trade Information

International Approval*	EU, USA, Japan, South Korea
Packaging	25 kg
Shelf life ***(stored in original container)***	720 days

* Information is based on our best knowledge and reviewed for the most requested regions only. We recommend to check current regulatory requirements in individual target countries. For more information, refer to Product Data Record (PDR) document chapter 5.

For further information, please contact:
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Product Specification

Material **TEGODEO PY 88 G**
Spec. Code **K00 STANDARD**

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Business Line Care Solutions
Goldschmidtstrasse 100
45127 Essen
Phone: +49 (201) 173-2524
http://www.evonik.com/personal-care
personal-care@evonik.com

Inspection Characteristic	Method	Limit	Unit	Z
Iodine value	GM_0050_04	76.00-88.00	g I/100g	X
pH-Value 1 %	GM_0134_01	6.00-7.00	pH-Value	X
Water Content	GM_0080_01	< = 1.50	%	X
Zinc content	GM_0910_02	9.2-10.6	%	X

Report on inspection certificate: X = specific/actual value, C = unspecific value/conformity, T = not reported

This document is computer printed and therefore valid without signature.
All warranty claims in respect of the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the criteria for our internal quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when despatched from the works.

The Standard Test Methods can be obtained from specialized publishers. Evonik's test methods are available on request.

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TEGODEO® PY 88 G

Product Data Record (PDR)

1. General Information

1.1 Supplier

Evonik Operations GmbH
Division Nutrition & Care
Business Line Care Solutions
Rellinghauser Straße 1-11
45128 Essen | Germany
personal-care@evonik.com
https://www.evonik.com/personal-care

1.2 Product Description

TEGODEO® PY 88 G is in full compliance with current Cosmetic Regulation (EC) No 1223/2009.

1.2.1 Raw Material Category/Function

Cosmetic Active for AP/Deo Application

1.2.2 INCI Declaration

Zinc Ricinoleate

1.2.3 Composition

Components (INCI EU/US)	Source	Percentage [%]
Zinc Ricinoleate	Vegetable	100

This composition information serves for information of our customers only. It is neither relevant for the composition listing according to Cosmetic Regulation (EC) No 1223/2009, nor does it reflect the chemical composition according to the different chemical regulations in the world which is disclosed in the table "information on ingredients/hazardous components" in the relevant parts of the respective (Material) Safety Data Sheets.

1.2.4 Additives (e.g. Antioxidants, Preservatives)

INCI	CAS No. / REACH Reg. No.	EINECS / EC No.	Content	Function
Tocopherol	1406-66-2/01-2120087841-49	604-195-9	approx. 0.04 %	Antioxidant
Helianthus Annuus (Sunflower) Seed Oil	8001-21-6/Exempt; Annex V, No. 9	232-273-9	approx. 0.02 %	Solvent for Antioxidant

Unless mentioned in our PDR under section 2.2 (By-Products/ Impurities) or 2.3 (CMR Substances), no components which are listed in Annex II of the current Cosmetic Regulation (EC) No 1223/2009 are added to and are not to be expected in the above mentioned product, due to the raw materials and the production process.

2. Production Process

2.1 General Information on the Production Process

TEGODEO® PY 88 G is obtained by conversion of zinc oxide and ricinoleic acid.

Description and Origin of plant based materials:
Castor (Ricinus communis)

Irradiation: TEGODEO® PY 88 G was not irradiated with γ-rays.

TEGODEO® PY 88 G is produced in the absence of any animal derived material of any type. Based on the information on the manufacturing process and production site no contamination with BSE/ TSE risk materials is to be expected.

CITES: TEGODEO® PY 88 G is not based on raw materials from species listed in CITES appendices.

GMO Status:
The item does not contain moieties from GMO risk crops (including oils and other refined ingredients). During the production no GMOs and derivatives from GMOs are used. All reasonable measures have been taken to avoid cross-contamination with GMOs or derivatives from GMOs.

2.2 By-Product/Impurities

Potentially occurring by – products are not added intentionally. Impurities e.g. residual solvents are technically unavoidable.

Description	Expected Values
Residual organic solvents	not applicable
Water content	NMT 1.5 %
Free amines	not applicable
Nitrosamines	not applicable
Monochloroacetic Acid	not applicable
Dichloroacetic acid	not applicable
Pesticides	meets the valid regulatory requirements for limits on agricultural pesticides
Total heavy metals	NMT 20 ppm
As, Cd, Co, Cr, Hg, Ni, Pb, Sb	each NMT 1 ppm
Latex	not to be expected in the product due to the raw materials used and the production process
VOC	NMT 3% according to SR (Swiss Right) 814.018
Diethylene glycol (DEG)	not applicable

2.3 CMR Substances

According to Cosmetic Regulation (EC) No 1223/2009 the use of substances classified as CMR (**C**arcinogenic, **M**utagenic or **R**eprotoxic) substances of category 1A or 1B or 2, under Part 3 of Annex VI to CLP Regulation (EC) No 1272/2008 in cosmetic products shall be prohibited.

Some of the CMR substances mentioned below and listed in Annex VI to CLP Regulation (EC) No 1272/2008 may be used as starting materials or solvents for the production of our cosmetic raw materials and may require reporting under California Proposition 65 or the California Safe Cosmetics Act, SB 484.

The presence of these substances has to be seen as non-intended and it is technically unavoidable in good manufacturing practice. Traces of CMR substances can derive from impurities of the starting materials or the manufacturing process.

CMR Substance	CAS No.	Starting material	Max. concentration/ Remark
Ethylene oxide (EO)	75-21-8	no	
Propylene oxide (PO)	75-56-9	no	
Octamethylcyclotetrasiloxane (D4)	556-67-2	no	
2-Ethylhexanoic acid	149-57-5	no	
n-Hexane	110-54-3	no	
Methyl chloride	74-87-3	no	
Dimethyl sulfate	77-78-1	no	
Dioxane (1,4-Dioxane)	123-91-1	no	
Formaldehyde	50-00-0	no	For more information on formaldehyde please refer to our factsheet available via our intoBeauty website. https://intobeauty.evonik.com/

2.4 "Allergens" according to the Regulation (EC) No 1223/2009

The presence of substances, the mentioning of which is required under the column 'Other' in Annex III of Cosmetic Regulation (EC) No 1223/2009, shall be indicated in the list of ingredients in addition to the terms "Perfume" or "Aroma".
None of those substances have been intentionally added to our cosmetic ingredients or are formed during the manufacturing process according to our knowledge of the chemistry. An analytical proof for the absence of traces of those substances is not performed in our cosmetic ingredients.

2.5 Food Ingredients listed in Annex II of Regulation (EU) No 1169/2011

None of these substances have been intentionally added to our cosmetic raw materials or are formed during the manufacturing process according to our knowledge of the chemistry.

2.6 Nanomaterial

The product is not a nanomaterial according to the definition given by Cosmetic Regulation (EC) No 1223/2009, the Commission Recommendation 2011/696/EU and the French Decree No. 2012-232. For details, a separate statement is available on request.

2.7 Substances of Very High Concern (SVHC)

The candidate list of substances of very high concern is regularly updated and published by ECHA. If applicable, the information on the substance/s from the candidate list, contained in our product in reportable amounts, is included in section 3 of the product related Safety Data Sheet (SDS).

2.8 Country of Origin

TEGODEO® PY 88 G is manufactured in: Germany

3. Animal Testing

We hereby confirm that we have never conducted any animal tests with our product TEGODEO® PY 88 G nor that we have ordered such tests at third parties or third parties have conducted such tests with our knowledge and acceptance to fulfil the requirements of Cosmetic Regulation (EC) No 1223/2009.

Therefore TEGODEO® PY 88 G is in full compliance with Cosmetic Regulation (EC) No 1223/2009.

4. Microbiological Status

Total Viable Count: max. 100 cfu/g
Pathogens*: absent/g

* Pathogens are: Enterobacteria, Pseudomonas, Enterococci, Candida albicans, Staphylococci

5. Shelf Life / Storage Conditions

720 days after production (unopened original packaging)

6. Regulatory Status

6.1 **HS-Code:** 291819

EU-CN-Code: 29181998

6.2 **Regulatory Status (Chemical Regulations)**

Europe

Components Chemical Name/INCI	REACH Status*	CAS No.	EINECS / EC No.
Zinc diricinoleate/Zinc Ricinoleate	Reg. No. 01-2119956639-19	13040-19-2	235-911-4
Reaction mass of D α-, D β- ,D γ- & D δ-Tocopherol (UVCB)/Tocopherol	Reg. No. 01-2120087841-49	1406-66-2**	604-195-9
Helianthus Annuus (Sunflower) Seed Oil	Exempt; Annex V, No. 9	8001-21-6	232-273-9

*) Any REACH registration no. referred to in this document covers the substance manufactured and/or imported into the European Community by Evonik Operations GmbH (or by our affiliates or by our EU suppliers). In case that a customer purchases material produced outside the EU which was not imported into the EU before supply and subsequently imports that material into the EU, this is not covered by any of our existing REACH registrations.
**) CAS No. 1406-66-2 is the reference number related to the REACH registration of (mixed) tocopherols. The tocopherols fell under the definition of substances of variable and/or unknown internal composition (UVCB). The main building blocks of mixed tocopherols are described by A: CAS 59-02-9 (alpha-), B: 16698-35-4 (beta-), C: 54-28-4 (gamma-), D: 119-13-1 (delta-Tocopherol)

Non EU - Countries/ Regions:

Component	Country	Inventory	yes / no	Remark
Zinc Ricinoleate	Australia	AIIC (former AICS)	yes	
	China	IECSC	yes	
	Canada	DSL	no	
	Canada	NDSL	yes	
	Taiwan	TCSI	yes	
Tocopherol	Australia	AIIC (former AICS)	no	but CAS numbers A-D are listed. (See explanation in section 6.2 **)
	China	IECSC	yes	
	Canada	DSL	no	listed on Revised In Commerce List (R-ICL) by CAS No. 1406-66-2
	Canada	NDSL	no	
	Taiwan	TCSI	yes	
Helianthus Annuus (Sunflower) Seed Oil	Australia	AIIC (former AICS)	yes	
	China	IECSC	yes	
	Canada	DSL	yes	
	Canada	NDSL	n.a.	
	Taiwan	TCSI	yes	

In the following countries the relevant authorities currently do not request pre-market approval for cosmetic raw materials:

Brazil, Japan, South Korea, Philippines, USA

6.2.1 Regulatory Status (Non EU - Cosmetic Regulations)

Other countries:

Component	Country	Inventory	yes / no	Remark
Zinc Ricinoleate	China	CFDA	yes	IECIC No. 01340
	Japan	JSQI	yes	JSQI specification is available on request (Besshi)
	Japan	JCIA	yes	JCIA No. 555066
Tocopherol	China	CFDA	yes	IECIC No. 06029
	Japan	JSQI	no	
	Japan	JCIA	yes	JCIA No. 551837
Helianthus Annuus (Sunflower) Seed Oil	China	CFDA	yes	IECIC No. 07074
	Japan	JSQI	no	
	Japan	JCIA	yes	JCIA No. 556661

7. Toxicology and Ecotoxicology

Refer to our document: "Summary of Toxicological and Ecotoxicological Data"

8. Packaging

700 kg (28 x 25 kg bag)