

## TECHNICAL DATA SHEET

Effective date: 04.2019

### Zinc ricinoleate

#### INFORMATION ON SUBSTANCE / MIXTURE

INCI	Zinc ricinoleate
Raw material category	Deodorant Agent / Odor Absorber
Description	Residual plant based source (dominant origin of main constituents): castor oil
Manufacturing process	Conversion of zinc oxide and ricinoleic acid

#### TECHNICAL DATA

##### Composition

Substance	%
Zinc ricinoleate (vegetable)	approx. 98.5 %
Water	max. 1.5 %
Solvents, preservatives and other additives	Water max. 1.5 % - solvent Mixed tocopherols (vegetable based) 0.039 % - antioxidant Soybean oil 0.021 % - solvent for the antioxidant

##### Physical and chemical parameters

Appearance	Solid, pellets
Color	Ivory
Odor	Characteristic
Solubility	Soluble in oil
Iodine value	76.00-88.00
pH-Value 1 %	6.00-7.00
Water Content	<=1.50 %
Zinc content	9.2-10.6 %

##### Biological parameters

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

\*Pathogens are: Enterobacteriaceae, Pseudomonas, Enterococci, Candida albicans, Staphylococci

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#### Contaminants

Residual solvents	not applicable
Free amines	not applicable
Nitrosamines	not applicable
Monochloroacetic acid	not applicable
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Dichloroacetic acid	not applicable
1,4-Dioxane	not applicable
Pesticides	meets the valid regulatory requirements for limits on agricultural pesticides
Total heavy metals	max. 20 ppm
As, Cd, Co, Cr, Hg, Ni, Pb, Sb	Each < 1 ppm
Latex	not to be expected in the product due to the raw materials used and the production process
VOC	< 3 % according to SR (Swiss Right) 814.018

#### TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Keep in tightly closed containers in a cool and dry place, protected from light. Stable at usual storage and use conditions.
Shelf Life	36 months, under good storage conditions

#### LEGISLATION

Allergens*	None of these substances have been intentionally added to cosmetic raw materials or are formed during the manufacturing process.
Vegan and vegetarian declaration	It is produced in the strictest absence of any animal derived material of any type.
CMRs	<p>The use in cosmetic products of substances classified as CMR substances, of category 1A or 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008 shall be prohibited. Some of the CMR substances mentioned below and listed in Annex VI to Regulation (EC) No 1272/2008 are used as starting materials or solvents for the production of cosmetic raw materials and may require reporting under California Proposition 65 or the Safe Cosmetics Act, SB 484.</p> <p>The presence of these prohibited substances has to be seen as non-intended. It is stemming from impurities of the starting materials or the manufacturing process which is technically unavoidable in good manufacturing practice.</p>

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	<table><tr><th>CMR substance</th><th>Starting material</th><th>Maximum concentration</th></tr><tr><td>Ethylene Oxide</td><td>no</td><td>-</td></tr><tr><td>Propylene Oxide</td><td>no</td><td>-</td></tr><tr><td>Octamethylcyclotetrasiloxane (D4)</td><td>no</td><td>-</td></tr><tr><td>2-Ethylhexanoic Acid</td><td>no</td><td>-</td></tr><tr><td>n-Hexane</td><td>no</td><td>-</td></tr><tr><td>Methyl Chloride</td><td>no</td><td>-</td></tr><tr><td>Dimethyl Sulfate</td><td>no</td><td>-</td></tr></table>	CMR substance	Starting material	Maximum concentration	Ethylene Oxide	no	-	Propylene Oxide	no	-	Octamethylcyclotetrasiloxane (D4)	no	-	2-Ethylhexanoic Acid	no	-	n-Hexane	no	-	Methyl Chloride	no	-	Dimethyl Sulfate	no	-
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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.																								
GMO	The item contains ingredients derived from rapeseed (including oils and other refined ingredients), but these ingredients are sourced from an "Identity Preserved" program and can be certified NON-GM. However max 0.9 % cross-contamination is possible. Any protein or DNA is not present. Consequently the product will be PCR negative when tested.																								
Irradiation	The product is not irradiated.																								
EINECS	231-791-2/ 215-798-8/ 232-274-4/ 235-911-4																								
CAS	7732-18-5/ 1406-18-4/ 8001-22-7/ 13040-19-2																								
REACH pre-registration no.	01-2119956639-19																								
Regulatory status (chemical regulations)																									
Zinc Ricinoleate	Australia AICS: yes China IECSC: yes Canada DSL/NDSL: yes Taiwan TCSI: yes																								
In the following countries the relevant authorities currently do not require pre-market approval for cosmetic raw materials	Brazil, Japan, South Korea, Philippines, USA																								
Regulatory status (cosmetic regulation)																									
Zinc Ricinoleate	China CFDA: yes Japan JSQI: Besshi Skin Cream up to 5%, Hair Shampoo up to 10%																								

\*Cosmetic allergens according to Cosmetic Regulation (EC) N° 1223/2009, Annex III; N° 67 – 92 and Food allergens according to Regulation (EU) N° 1169/2011, Annex II.

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### DISCLAIMER

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer or our supplier 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 dispatched from the works. We recommend you perform your own quality and or identification checks on receipt.

ELEMENTAL