

**8791-ACTIVATED CERAMIDES****1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION.****1.1 Identification of the substance or preparation:**

Name: Activated Ceramides

Bulk code: 8719

Internal code: 405277

Valid from batch: 0132308

**1.2 Synonyms:**

No data available.

**2. DESCRIPTION**

Appearance: slightly opalescent liquid

Color: yellowish-beige

Smell: almost no smell

Geographical origin: The product is manufactured in Germany.

Origin:

INGREDIENT	CAS	EC. No.	ORIGIN
Water	7732-18-5	231-791-2	Mineral
Pentylene Glycol	5343-92-0	226-285-3	Derived from plants (Sugar cane, stems)
Phospholipids	123465-35-0	-	Plant Derived (Non-GMO Soybeans, Peas, Fruits)
Sphingolipids	85116-74-1	285-526-0	Biotechnological (non-GMO yeasts)
Sodium Citrate	6132-04-3	200-675-3	Biotechnological
p- Anisic acid	100-09-04	202-818-5	Plant derivatives (star anise; seeds, basil whole plant)
Tocopherol	54-28-4	200-201-5	Plant derivative (Non-GMO soybean peas, fruits)

**8791-ACTIVATED CERAMIDES****3. COMPOSITION/INFORMATION ON THE COMPONENTS.**

Composition:

INGREDIENT	CAS	EINECS	PERCENTAGE
Water	7732-18-5	231-791-2	92.73
Pentylene Glycol	5343-92-0	226-285-3	5.1
Phospholipids	123465-35-0	-	1.80
Sphingolipids	85116-74-1	285-526-0	0.20
Sodium Citrate	6132-04-3	200-675-3	0.10
p- Anisic acid	100-09-04	202-818-5	0.07
Tocopherol	54-28-4	200-201-5	0.0014

**4. PHYSICAL-CHEMICAL DATA.**

For more detailed information, please consult the analysis bulletin.

**Solubility:** The product is miscible with water.**5. PROPERTIES/USES.**

Cosmetic Use.

The product contains phytolipids in the form of lamellar liquid crystals. The lipid mixture of plant origin consists of phospholipids and sphingolipids ( ceramides , glycosceramides = cerebroside ).

Ceramides are the most important structural elements of the lipid barrier . They are arranged in a lamellar pattern to act as a membrane and fill the intercellular space in the stratum corneum (SC). Aside from its important barrier function, this membrane also controls the cohesion of dead cells, the corneocytes . In dry, chapped skin, this lipid barrier is largely destroyed, and the skin experiences increased corneocyte desquamation and elevated transepidermal water loss.

Water loss from the deeper layers of the epidermis, in particular, will affect the functioning of cells that depend critically on their hydrated environment. Therefore, restoring the lipid barrier , in addition to eliminating the root cause of dry skin, will also restore the physiological functions of cells, thereby improving the overall condition of the skin.

In vivo tests showed that ceramide- containing formulations produced the desired effect only when the ceramides were present in lyotropic form , i.e., as lamellar liquid crystals. Topically applied preparations containing ceramides in an unordered form produced no effect.

**8791-ACTIVATED CERAMIDES**

The product restores the lipid barrier of the stratum corneum (SC) of dry and cracked skin and provides balanced moisture content. An epidermis that is intact, even in the outermost layer, is crucial for good physiological interaction between the individual layers of the skin. It can be used in skin care preparations and aqueous emulsions, especially gels.

**6. DOSAGE.**

5 – 10 %.

To work properly with the product, the processing temperature must not exceed 35°C.

If the manufacturing process includes shear forces produced by excessively vigorous stirring, it can partially destroy the lamellar structure .

Emulsified preparations can be checked by electron microscopy after cryofracturing to determine whether the membranes are still intact.

**7. OBSERVATIONS.****STORAGE:**

Store at room temperature (15-25°C) in a cool, dry place, protected from light and with the container tightly closed, away from sources of moisture and heat. Protect from freezing.

The documentation corresponding to the regulatory part of the product that is available for it is the one we reflect below.

**BSE/TSE:**

There is no risk of the presence of BSE/TSE, since it does not contain derivatives of animal use.

**GMO:**

The product does not contain genetically modified organisms.

**CMR:**

The product does not contain substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR), category 1A, 1B or 2 according to Regulation (EC) No 1272/2008 and its amendments.

**SVHC:**

It does not contain substances listed as SVHC in the latest update of the ECHA Candidate List, nor does it contain substances included in Annex XV of REACH.

**8791-ACTIVATED CERAMIDES****NANOMATERIALS:**

It does not contain nanomaterials as defined in Article 2, Section 1 (k) of Regulation (EC) No 1223/2009 on cosmetic products.

**VOC:**

It does not contain volatile organic compounds (VOCs) as defined in Council Directive 1999/13/EC.

**PESTICIDES:**

Based on knowledge of the raw materials and the production process, the presence of pesticides in the product is not expected.

**RESIDUAL SOLVENTS:**

Due to the raw materials used and the manufacturing process, the presence of residual solvents is not expected.

**CONTAMINANTS/IMPURITIES:**

Due to the starting material and manufacturing process, the presence of:

- Phthalaltes
- PAH

**HEAVY METALS:**

Due to the manufacturing process and the starting materials, the presence of heavy metals is not expected.

**CALIFORNIA PROPOSITION 65 :**

The product does not contain substances listed in the Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65) as of its latest version.

**NAGOYA PROTOCOL:**

It meets the requirements established by the Nagoya Protocol on access and benefit-sharing.

**ALLERGENS:**

- **Food allergens:** In accordance with Regulation 1169/2011 Annex II, the product may contain the following allergens:

## 8791-ACTIVATED CERAMIDES

Allergens according to Annex II of Regulation (EC) No 1169/2011	Presence	Handled in the same plant
Cereals containing gluten	No	No
Crustaceans and related products	No	Yeah*
Eggs and related products	No	No
Fish and related products	No	Yeah*
Peanuts and related products	No	Yes*, only refined oil
Soybeans and related products	Forks	Yeah*
Milk and related products	No	Yeah*
Walnuts	No	No
Celery and related products	No	No
Mustard and related products	No	No
Sesame seeds and related products	No	No
Sulfur dioxide and sulfites	No	Yeah*
Lupine and related products	No	No
Mollusks and related products	No	No
Honey, Royal Jelly, Propolis	No	Yeah*

\* Validated cleaning procedures reduce the risk of cross-contamination.

- **Cosmetic allergens:** Not expected to contain any of the 26 allergens listed in Annex III of Regulation (EC) No 1223/2009 which must be labelled in accordance with Article 19 (1) (g). The product does not contain any of the substances prohibited for cosmetic use listed in Annex II of Regulation (EC) No 1223/2009 on cosmetic products.

### VEGAN/VEGETARIAN:

It is made solely from raw materials of non-animal origin. Therefore, it is in line with the principles of a vegan lifestyle.

### ANIMAL TESTED:

The product has not been tested on animals.

### CITES:

It does not contain raw materials obtained from any of the endangered species listed in Annexes I, II or III of the "Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)", as of its latest version.

### COSMOS:

Approved.

**8791-ACTIVATED CERAMIDES****ISO 16128:**

According to the ISO 16128 natural ingredient classification, the product is 94.73% natural and 100% of natural origin.

**REACH:**

It fully complies with Regulation (EC) No 1907/2006 (REACH), as all substances are excluded from the regulation and/or exempt from registration and/or registered by the supplier:

INCI Name of Ingredient	CAS No.	REACH Status
Toilet	7732-18-5	Exempted , Annex IV
Pentylene Glycol	5343-92-0	Registered : 01-2119491291-39
Phospholipids	123465-35-0	Exempted , Annex IV
Sphingolipids	85116-74-1	Exempted , < 1 t/a*
Sodium Citrate	6132-04-3	Registered : 01-2119457027-40
p- Anisic acid	100-09-4	Registered : 01-2120767067-48
Tocopherol	54-28-4	Registered : 01-2120087841-49

\*The quantity of raw materials is not expected to exceed 1 t/ year in the near future. Substances will be registered if necessary.

**COSMETIC INVENTORIES:**

The product has no restrictions.

All ingredients are listed in the "Inventory of Existing Cosmetic Ingredients in China".