

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: 0119698

1.2 Synonyms:

No information available.

2. DESCRIPTION

Appearance: Slightly opalescent liquid

Colour: Yellowish

Odour: Almost odourless

Geographical origin: The product is manufactured in Germany

Origin:

INGREDIENT	CAS	EINECS	ORIGIN
Water	7732-18-5	231-791-2	Mineral
Pentylene Glycol	5343-92-0	226-285-3	Plant derivative (sugar cane, stems)
Phospholipids	8002-43-5	-	Plant derivatives (non-GMO soybeans, fruits)
Sphingolipids	85116-74-1	285-526-0	Plant derivatives/biotechnology (non-GMO yeasts)
Sodium Citrate	03/04/6132	-	Biotechnology
p-Anisic acid	100-09-04	-	Plant derivatives (star anise, seeds, entire basil plant)
Tocopherol	54-28-4	-	Plant derivative (non-GMO soybeans, fruits)

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

INGREDIENT	CAS	EINECS	PERCENTAGE
Water	7732-18-5	231-791-2	92.73
Pentylene Glycol	5343-92-0	226-285-3	5.1
Phospholipids	8002-43-5	-	1.80
Sphingolipids	85116-74-1	285-526-0	0.20
Sodium Citrate	03/04/6132	-	0.10
p-Anisic acid	100-09-04	-	0.07
Tocopherol	54-28-4	-	0.0014

4. PHYSICO-CHEMICAL DATA

For more information see the analysis report.

Solubility: The product is miscible with water.

5. PROPERTIES/USES

Cosmetic use.

The product contains phytolipids in lamellar liquid crystal form. The plant-based lipid mixture consists of phospholipids and sphingolipids (ceramides, glycosceramides = cerebrosides).

Ceramides are the most important structural elements in the lipid barrier. They are lamellar in shape, acting as a membrane and filling the intercellular space in the stratum corneum (SC). Aside from the important barrier function, this membrane also controls the cohesion of dead cells (corneocytes). In dry, cracked skin, this lipid barrier is largely destroyed and the skin suffers from increased corneocyte desquamation and high transepidermal water loss. The water loss in the deepest epidermal layers, in particular, will affect the functioning of the cells that depend decisively on a hydrated environment. Therefore, restoring the lipid barrier, in addition to eliminating the actual cause of dry skin conditions, will also restore the physiological functions of the cells, thus improving the overall condition of the skin. With in vivo tests, ceramide-containing formulations were shown to produce the desired effect only when the ceramides were present in lyotropic form, i.e. as lamellar liquid crystals. In topical use, preparations containing ceramides in an unordered form did not produce any effect.

The product restores the lipid barrier of the SC (stratum corneum) in dry and cracked skin and provides balanced hydration. It is crucial for the epidermis to be intact even in its

8791-ACTIVATED CERAMIDES

outermost layer, for effective physiological interaction between the individual layers of the skin.

It can be used in preparations for skincare and aqueous emulsions, particularly gels.

6. DOSAGE

5 – 10%.

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

If shear force is produced during the production process due to excessively vigorous stirring, this may partially destroy the lamellar structure.

The emulsified preparations may be checked with an electronic microscope after cryofracturing to verify whether the membranes remain intact.

7. REMARKS**STORAGE:**

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

The documentation available related to the product's regulatory compliance is included below.

BSE/TSE:

There is no risk of the presence of BSE/TSE as it does not contain derivatives from the use of animals.

GMOs:

The product does not contain genetically modified organisms.

CMR substances:

The product does not contain substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR), from category 1A, 1B or 2, as per Regulation (EC) 1272/2008 and its amendments.

SVHC:

Does not contain substances listed as SVHC in the latest update of the ECHA candidate list, nor does it contain substances listed in REACH Annex XV.

8791-ACTIVATED CERAMIDES**NANOMATERIALS:**

Does not contain nanomaterials as defined in Article 2, Section 1 (k) of Regulation (EC) 1223/2009 on cosmetic products.

VOCs:

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

PESTICIDES:

Based on our knowledge of the raw materials and the production process, pesticides are not expected to be present in the product.

RESIDUAL SOLVENTS:

Due to the raw starting materials and the manufacturing process, residual solvents are not expected to be present.

CONTAMINANTS/IMPURITIES:

Due to the raw starting materials and the manufacturing process, the following are not expected to be present:

- Phthalates
- PAHs

HEAVY METALS:

Due to the manufacturing process and the starting materials, heavy metals are not expected to be present.

CALIFORNIA PROPOSITION 65:

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

NAGOYA PROTOCOL:

Meets the requirements of the Nagoya Protocol on Access and Benefit-sharing.

ALLERGENS:

- **Food allergens:** The product contains soy, soybeans and derivatives, as per Annex II of Regulation (EC) 1169/2011. The product does not contain any of the other allergens contained in Annex II of the aforementioned Regulation. Substances that may contain allergens, such as crustaceans and related products, fish and related products, peanuts and related products, soy and related products, milk and related products, sulphur dioxide and sulphites, and honey, royal jelly and propolis are processed in the same plant, but cross-contamination with the aforementioned

8791-ACTIVATED CERAMIDES

allergens is not expected to occur due to the approved cleaning procedures, which reduce the risk of cross-contamination.

- **Cosmetic allergens:** It is not expected to contain any of the 26 allergens listed in Annex III to Regulation (EC) 1223/2009, which shall 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 to Regulation (EC) 1223/2009 on cosmetic products.

VEGAN/VEGETARIAN:

The product is manufactured using only non-animal-based raw materials. It therefore conforms to the principles of a vegan lifestyle.

ANIMAL TESTING:

The product has not been tested on animals.

CITES:

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.

REACH:

Fully complies with Regulation (EC) 1907/2006 (REACH), as all substances are excluded from the regulation and/or are exempt from registration and/or are registered by the supplier.

COSMETIC INVENTORIES:

The product is not restricted in any way.

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