

## NATIVACARE™ 5600

### 1. Product identity

<b>INCI Name</b>	ZEA MAYS (CORN) STARCH
<b>Chemical name</b>	Starch
<b>Description</b>	Physically treated maize (corn) starch
<b>Intended function</b>	Viscosity controller; Skin feel enhancer
<b>Appearance</b>	White powder
<b>CAS number</b>	9005-25-8
<b>EC number</b>	232-679-6
<b>Source</b>	Maize/corn
<b>Manufacturing Country of Origin</b>	Germany
<b>Manufacturing Quality System</b>	ISO 9001 and FSSC 22000 standards
<b>Shelf life/Storage</b>	2 years from manufacture, if stored correctly. Store in a clean, dry, well ventilated warehouse away from odorous materials. Store at ambient temperature. Store away from heat, sparks, or other flame sources. Keep product dry.

### 2. Composition and Impurities

The composition given below illustrates the typical composition of this product and should not be considered to be a formulation specification:

CAS Number	INCI Name	Chemical Name	Typical concentration	Function	Origin
9005-25-8	ZEA MAYS (CORN) STARCH	Starch	90-94%	Key	Natural
7732-18-5	AQUA	Water	6-10%	Residual moisture	Natural
7681-57-4	SODIUM METABISULFITE	Disodium disulphite	<0.001% SO <sub>2</sub>	Residual processing aid	Synthetic

### 3. EU Regulatory Status

#### EU Cosmetics Regulation (EC) No 1223/2009:

**Annex II:** Not expected to contain prohibited substances listed in Annex II of this Regulation

**Annex III:** Not expected to contain restricted substances listed in Annex III of this Regulation, including the 26 allergens as defined in the 7th Amendment of the European Cosmetics Directive (2003/15/EC)

Effective Date: 01.04.2017 [1]

The information described above is offered solely for your consideration, investigation, and independent verification. It is up to you to decide whether and how to use this information. Ingredion Incorporated and the Ingredion group of companies make no warranty about the accuracy or completeness of the information contained above or the suitability of any of their products for your specific intended use. Furthermore, all express or implied warranties of non-infringement, merchantability, or fitness for a particular purpose are hereby disclaimed. Ingredion Incorporated and the Ingredion group of companies assume no responsibility for any liability or damages arising out of or relating to any of the foregoing.

The INGREDION mark and logo are trademarks of the Ingredion group of companies. All rights reserved. All contents copyright © 2017 Ingredion Incorporated.

This product does not contain colorants or UV filters. Sodium Metabisulfite and Hydrogen peroxide are used as processing aids during the extraction of the starch; the maximum residual of sulphur dioxide in this product is 10 ppm (0.001%) and residual oxidants are not expected to be present.

Additionally, this product does not contain substances classified as Carcinogenic, Mutagenic or toxic to Reproduction (CMR) according to CLP Regulation (EC) No 1272/2008.

#### Allergens

As stated above, this product is not expected to contain the 26 allergens defined in the 7th Amendment of the European Cosmetics Directive (2003/15/EC). Additionally, we can confirm that this product is not expected to contain any of the 'Substances or Products causing allergies or intolerances' as defined in Annex II of Regulation (EU) No 1169/2011 on Food Information to Consumers. Residual sulphur dioxide is a maximum of 10 ppm (<10 ppm SO<sub>2</sub>), note it is specified in Regulation (EC) 1333/2008 on food additives<sup>1</sup> that an SO<sub>2</sub> content of less than 10ppm is not considered to be present.

#### REACH Regulation (EC) No 1907/2006

Starch is listed on Annex IV of the REACH Regulation, which lists substances that are exempted from registration under the REACH Regulation on the basis that "sufficient information is known about these substances that they are considered to cause minimum risk because of their intrinsic properties"- set out in Article 2.7. Additionally we can confirm that this product does not contain any substances of very high concern (SVHC).

#### CLP Regulation (EC) No 1272/2008

This product is not classified as hazardous according to (EC) No 1272/2008. However this product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m<sup>3</sup> (total inhalable) or 4 mg/m<sup>3</sup> (respirable).

---

<sup>1</sup> Regulation (EC) 1333/2008 on food additives, Annex II, Part E, 06.2.2.

Effective Date: 01.04.2017 [1]

The information described above is offered solely for your consideration, investigation, and independent verification. It is up to you to decide whether and how to use this information. Ingredion Incorporated and the Ingredion group of companies make no warranty about the accuracy or completeness of the information contained above or the suitability of any of their products for your specific intended use. Furthermore, all express or implied warranties of non-infringement, merchantability, or fitness for a particular purpose are hereby disclaimed. Ingredion Incorporated and the Ingredion group of companies assume no responsibility for any liability or damages arising out of or relating to any of the foregoing.

The INGREDION mark and logo are trademarks of the Ingredion group of companies. All rights reserved. All contents copyright © 2017 Ingredion Incorporated.

#### 4. Chemical Inventory Status

The information provided below is intended to provide inventory status for various geographies, it is not intended to be a complete regulatory assessment.

Substance identifier	CAS: 9005-25-8
Europe – EINECS	Listed
US – TSCA	Listed
Australia – AICS	Listed
Canada – DSL/NDSL	Listed
China – IECSC	Listed
Japan – MITI	Listed
Korea – ECL	Listed
Phillipines – PICCS	Listed

#### 5. Microbiological Data

Typical microbiological results for this product are summarised below. While this information is typical of NATIVACARE™ 5600 it should not be considered as a specification.

Standard Plate Count	<1000 cfu/g
Yeast	<100 cfu/g
Mould	<100 cfu/g
<i>Escherichia coli</i>	Negative/1 g
<i>Salmonella</i>	Negative/25 g

#### 6. Animal testing statement

This product has not been tested on animals.

#### 7. Nanomaterial status

Based on the EU Cosmetics Regulation (1223/2009/EC) and the European Commission Recommendation on the definition of nanomaterial (2011/696/EU), Ingredion EMEA Companies confirm that this product is not produced via nanotechnology.

Effective Date: 01.04.2017 [1]

The information described above is offered solely for your consideration, investigation, and independent verification. It is up to you to decide whether and how to use this information. Ingredion Incorporated and the Ingredion group of companies make no warranty about the accuracy or completeness of the information contained above or the suitability of any of their products for your specific intended use. Furthermore, all express or implied warranties of non-infringement, merchantability, or fitness for a particular purpose are hereby disclaimed. Ingredion Incorporated and the Ingredion group of companies assume no responsibility for any liability or damages arising out of or relating to any of the foregoing.

The INGREDION mark and logo are trademarks of the Ingredion group of companies. All rights reserved. All contents copyright © 2017 Ingredion Incorporated.

**8. Heavy metals**

Typical values for metals found in this product are given below. While this information is typical of NATIVACARE™ 5600 it should not be considered as a specification.

Heavy Metals	Value	Unit
Total Heavy Metals	10	mg/kg
Arsenic	1	mg/kg
Lead	1	mg/kg
Cadmium	0.1	mg/kg
Mercury	0.05	mg/kg

**9. Biologics Information**

**Genetically Modified Organisms**

This product is derived from non-GM maize. Traceability/identity preservation (IP) system in place.

**Animal Derived Ingredients**

This product does not contain any ingredients of animal origin.

**Natural Rubber/Latex**

This product is not formulated with latex derived from the rubber tree, *Hevea Brasiliensis*.

**Palm oil**

This product is not formulated with palm oil.

**10. Natural/Organic Certification**

NATIVACARE™ 5600 is a raw material approved by Ecocert in accordance with the COSMOS Natural standard. The Attestation of Conformity is available upon request.

**11. Toxicological summary:**

Starch is the glucide reserve in plants and is the main carbohydrate in the human diet. Starch, from all botanical origins, is listed on Annex IV of the REACH Regulation (EC) No 1907/2006. This Annex lists products exempted from REACH requirements on the basis that “sufficient information is known about these substances that they are considered to cause minimum risk because of their intrinsic properties”. Starch is a permitted food ingredient in the EU, with specifications laid down in the Food Chemicals Codex Starch and is also included on the US FDA's list of substances considered Generally Recognized As Safe (GRAS). NATIVACARE™ 5600 meets the Food Chemicals Codex (FCC) monograph definition and requirements for food starch, unmodified.

Effective Date: 01.04.2017 [1]

The information described above is offered solely for your consideration, investigation, and independent verification. It is up to you to decide whether and how to use this information. Ingredion Incorporated and the Ingredion group of companies make no warranty about the accuracy or completeness of the information contained above or the suitability of any of their products for your specific intended use. Furthermore, all express or implied warranties of non-infringement, merchantability, or fitness for a particular purpose are hereby disclaimed. Ingredion Incorporated and the Ingredion group of companies assume no responsibility for any liability or damages arising out of or relating to any of the foregoing.

The INGREDION mark and logo are trademarks of the Ingredion group of companies. All rights reserved. All contents copyright © 2017 Ingredion Incorporated.

**Systemic toxicity:**

Starch derived from maize (Zea mays starch) has been reviewed by the US Cosmetic Ingredient Review who concluded that starch derived from maize is safe for use in cosmetics based on current uses<sup>2</sup>.

**Local toxicity:**

The product itself can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m<sup>3</sup> to avoid respiratory irritation, similarly the particles may irritate the eyes. Local effects on the skin have not been investigated for NATIVACARE™ 5600, however a native maize starch in a Repeated Insult Patch Test in 50 human volunteers, no potential for dermal irritation or sensitisation was observed.

Study	Test item	Result
Repeated Insult Patch Test	Native maize starch	Under the conditions of the study the test item did not indicate potential for dermal irritation or sensitisation

**12. Sustainability**

Please find Ingredion’s Sustainability Update at the link below.

<http://www.ingredionincorporated.com/CorporateResponsibility/sustainability.html>

This document is issued on behalf of the Ingredion EMEA Company which is supplying the product. The Ingredion EMEA Companies are part of the Ingredion group of companies. The respective details of each of the Ingredion EMEA Companies are as follows:

**Ingredion UK Limited**  
 Ingredion House,  
 Manchester Green  
 339 Styal Road  
 Manchester M22 5LW  
 England

P: +44 (0) 161 435 3200  
 F: +44 (0) 161 435 3300

Registered in England No. 07315745

**Ingredion Germany GmbH**  
 Grüner Deich 110  
 20097 Hamburg  
 Germany

P: +49 (0) 40 23 91 50  
 F: +49 (0) 40 23 91 51 70

Amtsgericht Hamburg HRB 105432

**Russia Ingredion Holding LLC  
 Representative Office**  
 Vernadskogo Prospect  
 39, office 501  
 Moscow  
 Russia  
 119415

P: +7 (0) 495 786 81 43

**Ingredion South Africa (Pty) Ltd**  
 Infinity Office Park, Suite 6, Block C,  
 2 Robin Close, Meyersdal, 1448,  
 Gauteng  
 RSA

P: +27 (0) 11 867 9260  
 F: +27 (0) 11 867 9271

Registration number 2010/013219/07

**Ingredion Middle East  
 Branch**  
 Office 03B Dubai  
 Dubai Biotechnology and Research  
 Park  
 Dubai  
 United Arab Emirates

P: +971 44 53 4288

**Kenya Ingredion Holding LLC**  
 5th Floor-Tulip House  
 Mombasa Road  
 P.O Box 1952-00606  
 Nairobi  
 Kenya

P: +254 20 36 28 000

**Rafhan Maize Products Co. Ltd.**  
 Rakh Canal East Road  
 PO Box 62  
 Faisalabad 38060  
 Punjab  
 PAKISTAN

T: 92-41-854-0121  
 F: 92-41-871-1016

<sup>2</sup> CIR (2011). Final report of the Safety Assessment of Cosmetic Ingredients Derived from Zea Mays (Corn)

Effective Date: 01.04.2017 [1]

The information described above is offered solely for your consideration, investigation, and independent verification. It is up to you to decide whether and how to use this information. Ingredion Incorporated and the Ingredion group of companies make no warranty about the accuracy or completeness of the information contained above or the suitability of any of their products for your specific intended use. Furthermore, all express or implied warranties of non-infringement, merchantability, or fitness for a particular purpose are hereby disclaimed. Ingredion Incorporated and the Ingredion group of companies assume no responsibility for any liability or damages arising out of or relating to any of the foregoing.

The INGREDION mark and logo are trademarks of the Ingredion group of companies. All rights reserved. All contents copyright © 2017 Ingredion Incorporated.