

NATIVACARE™ 5600 starch

I. PRODUCT IDENTITY

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| INCI Name(s) | ZEA MAYS (CORN) STARCH |
| Description | Zea Mays Starch is high-polymeric carbohydrate material usually derived from the peeled seeds of the Corn, Zea mays L., Gramineae |
| Intended function | Viscosity controller; Skin feel enhancer |
| Appearance | Free-flowing White Powder |
| Source | Maize |
| CAS number(s) | 9005-25-8 |
| EC number(s) | 232-679-6 |
| NMPA Registration | 008219-02351-6888 |
| Manufacturing Country of Origin | Germany |
| Manufacturing Quality | ISO 9001 and FSSC 22000 standards |
| Shelf life/Storage | 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 the heat, sparks, or other flame sources. |

2. COMPOSITION

The composition given below illustrates the typical standard for NATIVACARE™ 5600 starch. However, this should not be considered a formulation specification.

| | |
|------------------------------|--------------------------------------|
| CAS Number | 9005-25-8 |
| INCI Name | ZEA MAYS (CORN) STARCH |
| Typical Concentration | 100% for cosmetics labelling purpose |
| Function | Key |
| Origin | Maize |

3. MICROBIOLOGICAL DATA

Typical microbiological results for this product are summarized below.

| | |
|----------------------------|-----------------|
| Aerobic Plate Count | <1000 cfu/g max |
| Mold | <100 cfu/g max |
| Yeast | <100 cfu/g max |
| Escherichia coli | Negative/1g |
| Salmonella | Negative/25g |

Effective Date: 02/2025

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4. REGULATORY STATUS

EU Cosmetics Regulation (EC) No. 1223/2009¹

Not expected to contain prohibited substances, restricted substances, colourants or UV filters listed Annex II, III, IV and VI of this Regulation or substances classified as Carcinogenic, Mutagenic or toxic to Reproduction (CMR) according to CLP Regulation (EC) No 1272/2008. This product does not contain substances used as preservatives, however sodium metabisulphite and hydrogen peroxide are used as processing aids during starch production. The maximum residual of sulphur dioxide is 10 ppm (0.001%) and residual oxidants are qualitatively confirmed as Negative using a KI test.

Further, with regards to allergen, this product does not contain any of the substances identified as allergens under Regulation (EC) 2023/1545 amending Annex III to (EC) No. 1223/2009.

CLP Regulation (EC) No. 1272/2008²

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/m³ (total inhalable) or 4 mg/m³ (respirable). Please refer to the Safety Data Sheet for further information.

REACH Regulation (EC) No. 1907/2006³

This product is classed as a polymer, polymers themselves are exempt from registration requirements under EU REACH.

Further, with regards to synthetic polymer microparticles (SPM), this product is excluded from SPM designation- polymer that is degradable according to Commission Regulation (EU) 2023/2055 amending Annex XVII (EC) No. 1907/2006

California Safe Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain chemicals known to the State of California to cause cancer or toxicity at levels above the "no significant risk levels".

Biodiversity:

This product is sourced from established commodities that have not been derived from indigenous genetic resources.

**Nagoya Protocol
Brazil Law No. 13, 123/15**

This product is an established commodity that can be sourced globally. The specific strains used are not based on local knowledge and are sourced from well-established crops using modern agricultural practices.

Convention on International Trade in Endangered Species (CITES)

This product is not derived from CITES endangered species.

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5. CERTIFICATIONS & STATEMENTS

All certifications available upon request.

| | |
|--|--|
| Genetically Modified Organisms | This product is derived from Identity Preserved Non-GM and is certified non-GM in accordance with Regulation (EC) 1829/2003 ⁴ and Regulation (EC) 1830/2003 ⁵ . |
| Biodegradability | This product is classified as “Readily or Inherently Biodegradable” in accordance with OECD Guidelines 301B. |
| ECOCERT / COSMOS Natural Certification | This product is a raw material approved by Ecocert in accordance with the COSMOS Natural standard. |
| Natural Origin Index (ISO 16128) ⁶ | <p>This product comes under the definition of “Natural Ingredient” according to ISO 16128.</p> <p>Natural Index: 1 Natural Origin Index: 1 Organic Index: 0 Organic Origin Index: 0</p> |
| Animal Testing | The European Cosmetics Regulation (EC) No 1223/2009 ⁱ prohibits the animal testing of cosmetic ingredients. We confirm that the above products have not been tested on animals for the purposes of development of cosmetic products by, or on behalf of, any of the Ingredion companies. |
| Allergens | This product is not expected to contain the majority of ‘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 <10 ppm from use of sodium metabisulfite as a processing aid. |
| Animal Derived Ingredients/Content | This product does not contain materials which are of animal, bird, insect, or marine animal origin. Further, it is our understanding that the constituents or components used in the manufacture of this product do not contain material from animal, bird, insect, or marine animal origin and no such animal derived materials were used during the manufacturing of this product. |
| BSE/TSE Statement | This product is derived from botanical sources and are not manufactured using materials of bovine, sheep, goat or human origin. These products do not come in contact with any animal origins materials in which TSE or BSE have been found. |
| Kosher | This product is certified Kosher Pareve by the Kashrut Division London Beth Din |
| Gluten | This product does not contain gluten and any unavoidable presence of gluten in the product is below 20 ppm. |
| Oxidation/Ethylene Oxide/Sewage Sludge | Our sourcing and manufacturing processes do not include treatment with radiation, ethylene oxide or sewage sludge. |
| SVHC Statement | This product is not manufactured using Candidate List Substances of Very High Concern (SVHC), as most currently. Based on product chemistry we would not reasonably anticipate these materials to be present. |
| VOC Statement | Volatile Organic Compounds (VOC) are organic chemicals that have a high vapour pressure at ordinary room temperature. Based on product composition, we affirm that this product is not reasonably expected to contain VOCs. |

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Nanotechnology & Nanomaterial Status

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

In accordance with the French decree n° 2012-232 on the definition of nanomaterial as, “a substance intentionally manufactured on a nanometric scale and containing particles, unbound or as an aggregate or agglomerate, of which a minimum proportion in the number-size distribution has one or more external dimensions in the range 1 nm to 100 nm”. Ingredion Companies confirm that this product does not contain nanomaterials.

6. MATERIALS NOT PRESENT

We are pleased to affirm that this product is not manufactured with the use of any of the materials listed below. Based on product chemistry these substances are not reasonably expected to be present in this product.

- Palm Oil and its derivatives
- Phthalates and phthalate esters
- Glycol
- Sulfates
- PEG and petroleum-based ingredients
- Silicones
- Parabens
- Natural Rubber/Latex
- Microplastics
- Soy
- Gluten
- Sewage Sludge
- Colorants
- UV Filters

7. SAFETY & CLINICAL DATA

All documentation available upon request.

RIPT Testing

This product is classified as “Non-irritating” in accordance with

Mutagenicity

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

Irradiation

This product has not been irradiated at any point.

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8. TOXICOLOGY & IMPURITIES

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 EU 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 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)⁷ monograph definition and requirements for food starch, unmodified.

All documentation available upon request.

| | |
|---|--|
| Total Heavy Metals | <10 mg/kg |
| Arsenic | <1 mg/kg |
| Lead | <1 mg/kg |
| Mercury | <0.05 mg/kg |
| Residual Solvents (Ethyl Alcohol or Isopropyl Alcohol) | We have reviewed our products for the use of residual solvents as listed in USP General Chapter <467>, Residual Solvents and the ICH Q3C (R8) Guideline for Residual Solvents. No class one, two, three or other solvents per USP <467> are used during the manufacturing or handling process of our food starch products. |
| Sulphur Dioxide | The maximum residual of sulphur dioxide is 10 ppm (0.001%) and residual oxidants are qualitatively confirmed as Negative using a KI test. |
| Systemic Toxicity | Starch derived from maize (Zea mays starch) has been reviewed by the US Cosmetic Ingredient Review ⁸ who concluded that starch derived from maize is safe for use in cosmetics based on current uses. |
| Local Toxicity | The product itself can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m ³ 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 Insults Patch Test in 50 human volunteers, no potential for dermal irritation or sensitization was observed. |

9. 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 – EC Number | 232-679-6 |
| US - TSCA | CAS number listed |
| Australia - AICS | CAS number listed |
| Canada – DSL | CAS number listed |
| China – IECSC | CAS number listed |

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| China – IECIC (Cosmetic Inventory 2021) | INCI name listed |
| Japan – ENCS | CAS number listed |
| Korea – KECI | CAS number listed |
| Philippines - PICCS | CAS number listed |
| New Zealand - NZIoC | Maybe used as a single component chemical under appropriate group standard |
| Taiwan - TCSI | CAS number listed |

10. SUSTAINABILITY

Please find Ingredion's Sustainability Report at <https://go.ingredion.com/sustainability>

- 1 Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products, as amended
- 2 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives
- 3 Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
- 4 Regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed, as amended
- 5 Regulation (EC) No 1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning the traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms, as amended
- 6 Guidelines on technical definitions and criteria for natural and organic cosmetic ingredients and products (16128-1:2019 and 16128-2:2017)
- 7 Food Chemical Codex, Starch Unmodified
- 8 CIR (2011). Final report of the Safety Assessment of Cosmetic Ingredients Derived from Zea Mays (Corn)

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