

FARMAL™ MS 6822

1. Product identity

INCI Name	SODIUM HYDROXYPROPYL STARCH PHOSPHATE
Intended function	Rheology modifier and Aesthetic Enhancer
Appearance	White to off white powder
CAS number	221355-22-2
Source	Maize/corn starch (chemically modified)
Manufacturing Country of Origin	USA or China
Manufacturing process	General description: Modification of maize starch with chemical reagents Manufacturing process flow available on request
Manufacturing Quality System	US 21CFR Part 110, ISO 9001 and FSSC 22000
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 heat, sparks, or other flame sources. Keep product dry.

2. Composition and Impurities

The composition given below illustrates the typical standard for the product FARMAL™ MS 6822. However, this should not be considered a formulation specification.

CAS Number	INCI Name	Chemical Name	Typical concentration	Function	Origin
221355-22-2	SODIUM HYDROXYPROPYL STARCH PHOSPHATE	sodium hydroxypropyl starch phosphate	100% for cosmetic labelling purposes	Key	Naturally Derived / Synthetic (biopolymer from modified natural maize starch)
7732-18-5	AQUA	Water	9-13%	Residual moisture	Natural
7681-57-4	SODIUM METABISULFITE	Disodium disulphite	<0.001% SO ₂	Residual processing aid	Synthetic
78-89-7	-	Propylene chlorohydrins (1-chloro-2-propanol and 2-chloro-1-propanol)	<0.0001%	Residual monomer	Synthetic

Effective Date: 10.06.2021

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3. EU Regulatory Status

EU Cosmetics Regulation (EC) No 1223/2009, as amended¹:

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.

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

This product does not contain colorants or UV filters. Sodium metabisulphite and hydrogen peroxide are used as processing aids during the extraction of the starch. The maximum residual of sulphur dioxide is 10 ppm (0.001%) and residual oxidants are qualitatively confirmed as Negative using a KI test.

Allergens

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 'Substances or Products causing allergies or intolerances' as defined in Annex II of Regulation (EU) No 1169/2011² on Food Information to Consumers. With regards to the residual sulphur dioxide, Regulation (EC) 1333/2008 on food additives³ states that an SO₂ content of less than 10ppm is not considered to be present.

REACH Regulation (EC) No 1907/2006⁴

This product is classed as a polymer and is therefore exempt from EU REACH. However, the product is a chemically modified polymer consisting of >2 % of a modifying substance. Ingredion Germany GmbH has registered the substance in the 10 – 100 tonne/year tonnage category. Additionally, we can confirm that this product does not contain any substances of very high concern (SVHC) present on the candidate list of substances above the 0.1% threshold.

CLP Regulation (EC) No 1272/2008⁵

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.

¹ Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products

² Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011 on the provision of food information to consumers

³ Regulation (EC) 1333/2008 on food additives, Annex II, Part E, 06.2.2.

⁴ 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

⁵ 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

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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: 221355-22-2
US - TSCA	CAS number not listed
US – CA Prop 65	CAS number not listed
Australia - AICS	CAS number not listed
Canada – DSL	CAS number not listed
China – IECSC	CAS number not listed
China – IECIC (Cosmetic Inventory 2015)	INCI name listed
Japan – ENCS	CAS number not listed
Korea - KECL	CAS number not listed
Philippines - PICCS	CAS number not listed
New Zealand - NZLoC	Maybe used as a single component chemical under appropriate group standard
Taiwan - TCSI	CAS number not listed

5. Microbiological Data

Typical microbiological results for this product are summarised below. While this information is typical of the FARMAL™ MS 6822 product, it should not be considered a specification.

Standard Plate Count	1000 cfu/g
Yeast	<50 cfu/g
Mould	<50 cfu/g
<i>Escherichia coli</i>	Negative/1g
<i>Salmonella</i>	Negative/25g

6. Animal testing statement

No animal testing has been conducted on this product for use in cosmetics, in line with the Cosmetics Regulation (1223/2009/EC). For more information, please refer to our animal testing statement.

7. 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 EMEA Companies confirm that this product is not produced via nanotechnology.

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8. Heavy metals

Typical values for metals found in this product are summarised below. While this information is typical of the FARMAL™ MS 6822 product, it should not be considered a specification.

Metal	Value	Unit
Arsenic (total)	<10	mg/kg
Cadmium (total)	<10	mg/kg
Lead (total)	<5	mg/kg
Mercury (total)	< 10	mg/kg

9. Biologics Information

Genetically Modified Organisms

This product may be derived from GM maize.

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, *Havea Brasiliensis*.

10. Natural/Organic Certification

This product has not been certified against EU standards as Natural or Organic.

11. Toxicological summary:

Starch is the glucide reserve in plants and is the main carbohydrate in the human diet. Sodium Hydroxypropyl Starch Phosphate is a chemically modified starch. The document 'US Cosmetic Ingredient Review: Safety assessment of polysaccharide gums as used in cosmetics' reviews the safety of a large number of polysaccharide gums including the read across substance Hydroxypropyl Starch and concluded that this ingredient was safe based on the current use in cosmetics.

Systemic toxicity:

Systemic toxicity via use in cosmetics is not expected.

Local toxicity:

The product itself can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m³ to avoid respiratory irritation, similarly the particles may irritate the eyes. No data is available on the local

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effects to the skin, however native maize starch has been studied in Repeated Insult Patch Test and no potential for dermal irritation or sensitisation was observed.

12. Sustainability

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

http://www.ingredion.com/corporate_responsibility/sustainability/

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:

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