

RAW MATERIAL INFORMATION

NATURA-TEC RICE STARCH
Product identification

Manufacturer :	Natura-tec, A&A Group
Country of origin :	France, Italy
Custom Tariff :	11081910
Certification :	Cosmos approved Food grade Certified according to Natrue criteria by Bioagricert srl
CSAR code	001888-00615-3581

Manufacturing process and chemical composition
Manufacturing process:

Natura-Tec Rice Starch is manufactured from polished broken rice of Italian origin, obtained by wet milling, sieving, separation, concentration and drying.

Chemical composition:

INCI/USA	INCI/EEC	CAS N°.	EINECS / ELINCS N°	Function	%
Oryza Sativa (Rice) Starch	Oryza Sativa Starch	9005-25-8	232-679-6	Absorbent, bulking agent	100% vegetable origin

The product **Natura-Tec Rice Starch** does not contain additional preservatives or antioxidants.

Food quality

We hereby certify that our product **Natura-Tec Rice Starch** is of food quality :

- The Rice used to produce our Natura-Tec Rice Starch is from Italian origin and is guaranteed non GMO.
- Our Natura-Tec Rice starch conforms the rules of food processing.

Impurities:

Impurities	Nature	Specification, ppm
Residual solvents		None
Monomers		None
Heavy metals	Pb	<LOQ (LOQ = 0.05ppm)
	As	<LOQ
	Cd	<LOQ
	Hg	<LOQ

	Cr	<LOQ
	Ni	<LOQ
	Others	$\Sigma < 3$ ppm
Pesticides		None

Decontamination by radioactivity

We hereby certify that the product **Natura-Tec Rice Starch** has not been treated with ionising radiation.

ISO16128 guideline Information

Substance INCI name	Ingredient type	% mass fraction	Natural index	Natural origin index	Organic index	Organic origin index
Oryza Sativa Starch	Natural	100%	1	1	0	0
Natural origin content %*	100%					

Natural origin content %*: the mass percentage, between 0% and 100%, of all-natural ingredients and natural portions of derived natural ingredients in the product.

Reach compliance / CLP classification

Reach (CE regulation n°1907/2006)

Substance INCI name	CAS No	EINECS	Registration status
Oryza Sativa Starch	9005-25-8	232-679-6	Exempted annex IV and V

CLP classification

Natura-Tec Rice Starch is not classified under regulation CE 1272/2008

Ingredient of vegetable origin

General description of the vegetable	
INCI name of the ingredient of vegetable origin	Oryza Sativa Starch
Name of the vegetable (genus – species – Family))	Genus: Oryza Species: O. Sativa Family: Poaceae
Part used	Rice
Geographical origin	Italy
Is the plant cultivated or natural?	Cultivated
Is it a regulated vegetable species (CITES, IUCN red list...)?	No

Storage conditions

Packaging : Kraft drums, 20 kg net.
 Storage : Store in a cool dry place in original unopened packaging. Away from insects, rodents and bad odors.
 Shelf life : 24 months in original unopened packaging.
 Safety : Not considered as hazardous. Refer to SDS.

Toxicological data

From information available, the product **Natura-Tec Rice Starch** is non-toxic under normal conditions of use.

Bibliographic data:
www.cosmeticsinfo.org

The safety of the ingredients made from rice has been assessed by the Cosmetic Ingredient Review (CIR) Expert Panel. The CIR Expert Panel evaluated the scientific data and concluded that Oryza Sativa (Rice) Bran Oil, ..., Oryza Sativa (Rice) Starch, ... were safe as a cosmetic ingredient.

Regulatory information - Certificate

Cosmetic Regulation compliance

In conformance to the Regulation 1223/2009 in respect to the use in cosmetic products, **Natura-Tec Rice Starch** is exempted of prohibited substances (Annex II) and restricted substances (Annex III). **Natura-Tec Rice Starch** is exempted of Phthalates, nonylphenol, alkylphenols, phenol, nitrosamines, glycol ethers, formol, formaldehyde...

Non GMO origin

We hereby confirm that the product **Natura-Tec Rice Starch** does not contain GMO's or GMO derived components; no GMO derived materials or processing aids are employed in the manufacture of this product. **Natura-Tec Rice Starch** is derived from Italian food rice production and so is not made with, nor contain ingredients from genetically modified organisms in accordance with EC Regulations 1829/2003 and 1830/2003 concerning the traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified

organisms and any amending legislation

Food regulation compliance

Item	Compliance : Yes or No or Comments
GMO: <i>Not derived from Genetically Modified Organism (G.M.O.) – According to regulations 1829/2003/EC and 1830/2003/EC concerning the traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms and any amending legislation</i>	Y
Contaminants (Regulation. EC n. 1881/2006 and amendments): - Dioxin/PCB - Mycotoxins	Y
Polycyclic Aromatic Hydrocarbons according to Reg. UE n. 1933/2015 Benzo(a)pyrene ppb =< 10 PAH 4 ppb =< 50	Y
WADA (*): <i>We declare that the product/ raw material clearly identified doesn't contain any substance included in the World Anti-Doping Agency (WADA) Prohibited List (last Edition).</i>	Y
Food Law: <i>We declare that the product/ raw material clearly identified is manufactured according to Hazard Analysis and Critical Control Points system and safety procedures in compliance with Commission Regulation (EC) No. 852/2004, 853/2004, 854/2004, 178/2002, hence it is suitable for food application.</i>	Y
Contaminants: <i>We declare that the product/ raw material clearly identified complies with Regulation EC n. 1881/2006/CE and amendments on contaminants.</i>	Y
Pyrrolizidine Alkaloids (only for vegetables product): <i>We declare that the product/raw material clearly identified is monitored for pyrrolizidine alkaloids contamination.</i>	Y
(Reg. UE n. 1169/2011): We declare that the product is not an engineered nanomaterial	Y
Latex: <i>We declare that the product/ raw material clearly identified has not been in contact and doesn't contain ingredients derived from latex.</i>	Y

Non animal testing

We hereby confirm that **Natura-Tec Rice Starch** of our manufacture, has not been tested on animals.

Absence CMR

It is certified that the product **Natura-Tec Rice Starch** does not contain carcinogenic, mutagenic or reprotoxic (CMR) substances of categories 1, 2, 3 or 1A, 1B or 2 listed in regulation 1272/2008 and amendments: commission regulation (CE) n° 790/2009 and n°286/2011.

Allergens certificate

It is hereby certified that the product **Natura-Tec Rice Starch** of our manufacture, does not contain any of the allergens listed in the Regulation (EC) No 1223/2009 (Annex III).

Product allergen labelling (Reg. (EU) 1169/2011 Annex II)
 (Y for Yes, N for No, N/A for Not Applicable or N/K for Not Known)

Allergen	Present ¹	Cross- Contamination ²
Cereals containing gluten* i.e. wheat, rye barley, oats, spelt, kamut or their hybridised strains	N	N
Crustaceans*	N	N
Eggs*	N	N
Fish*	N	N
Peanuts*	N	N
Soybeans*	N	N
Milk and dairy products* (including lactose)	N	N
Nuts and nut products* i.e. Almond (prunus dulcis), Hazelnut (Corylus avellana), Persian walnut, English walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistacho nut (Pistacia vera), Macadamia nut, Queensland nut (Macadamia ternifolia)	N	N
Sesame seeds*	N	N
Celery*	N	N
Mustard*	N	N

Nutritional labelling (

Reg. (EU) 1169/2011 Annex I) (It's indicated the energy value and content of following nutrients)

Energy value:	354 Kcal/100g
Fat (saturates, mono-unsaturates, polyunsaturates):	0 g/100g
Carbohydrate (sugars, polyols, starch):	88 g/100g
Salt:	0,09 g/100g
Fibre:	0 g/100g
Protein:	< 1 g/100g

Vegan statement

We hereby confirm that the product **Natura-Tec Rice Starch** comply with vegan requirements.

Halal statement

Herewith we confirm that our **Natura-tec Rice starch** is not of animal origin and does not contain, make use of, or involve animal-derived raw materials at any step of the respective manufacturing processes. It also does not contain ethyl alcohol.

Palm free statement

The product **Natura-Tec Rice starch** does not contain any palm derivative ingredients.

BSE statement

We, the undersigned, certify that during the manufacturing process of our **Natura-Tec Rice Starch**:

- No material derived from animal has been used during the manufacture, processing or packing / re-packing.
- There is no risk of cross contamination from products derived from animal during the manufacture, processing or packing / re-packing

Gluten free

We certify that the product **Natura-Tec Rice Starch** that we manufacture is exempted of Wheat gluten.

The production line is dedicated to Rice derivatives and then excludes any cross contamination with products based on WHEAT, BARLEY, OATS AND RYE.

SVHC substance

It is certified that the product **Natura-Tec Rice Starch** of our manufacture does not contain substances identified as SVHC featuring in the "REACH candidate list" published.

The "REACH candidate list" is present on ECHA web site at the below link:

Link: http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

Volatile organic compounds VOC

We hereby confirm that **Natura-Tec Rice Starch** of our manufacture, does not contain any VOC.

Nanomaterial statement

We hereby certify that our **Natura-Tec Rice Starch** does not contain nanomaterials in accordance with Cosmetic Regulation (EC) No. 1223/2009, French Decree 2012-232 and COMMISSION RECOMMENDATION of 10 June 2022 on the definition of nanomaterial (2022/C 229/01).

No observable adverse effect level - NOAEL

Natura-Tec Rice Starch meets the EC Directive 76/648/EEC and no adverse effects have been reported after a use in the cosmetic industry for more than 5 years.

Based on in-vivo uses our **Natura-Tec Rice Starch** has been identified non toxic under normal conditions of use.

Proposition 65

We hereby certify that our **Natura-Tec Rice Starch** does not contain any substances listed in the proposition 65.

Petrochemical free

We hereby certify that our **Natura-Tec Rice Starch** does not contain any petrochemicals

1,4-dioxane statement

We hereby certify that our **Natura-Tec Rice Starch** is 1,4-dioxane free.

Nagoya Statement,

We hereby certify that our **Natura-Tec Rice Starch**, designed by Ceratec Sarl - Incorporating Natura-Tec division, was not developed via the utilization of genetic resources/or of an associated traditional knowledge, as defined in the EU Regulations No. 511/2014 and No 2015/1866.

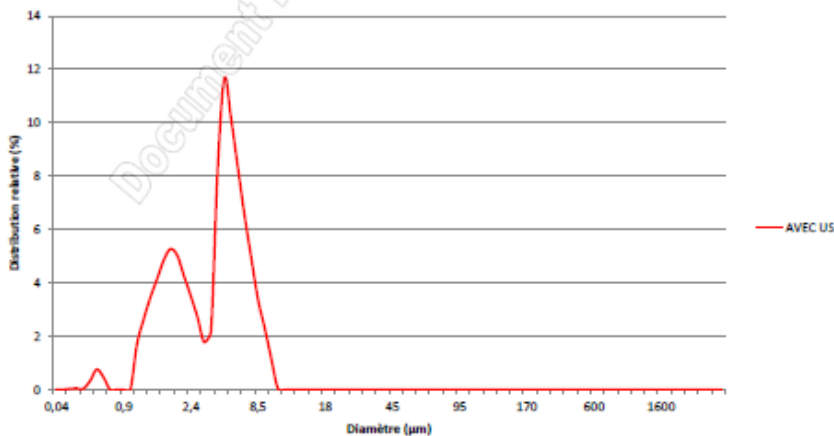
Global restriction

Europe	No restriction
USA	No restriction
Canada	No restriction
Japan	No restriction
China	No restriction
Australia	No restriction
Korea	No restriction

Efficacy data

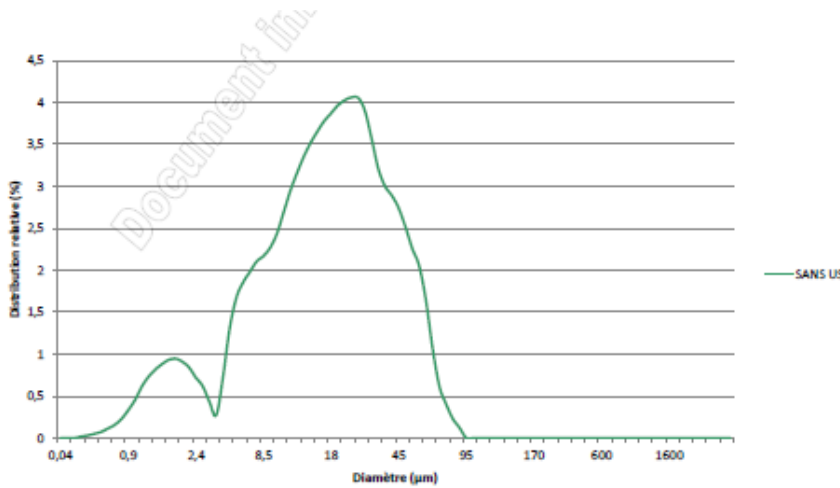
GRANULOMETRY

Frequency plot related volume



With Ultrasound the Rice Starch is not agglomerated

100% of particle size 0,07 – 10µm

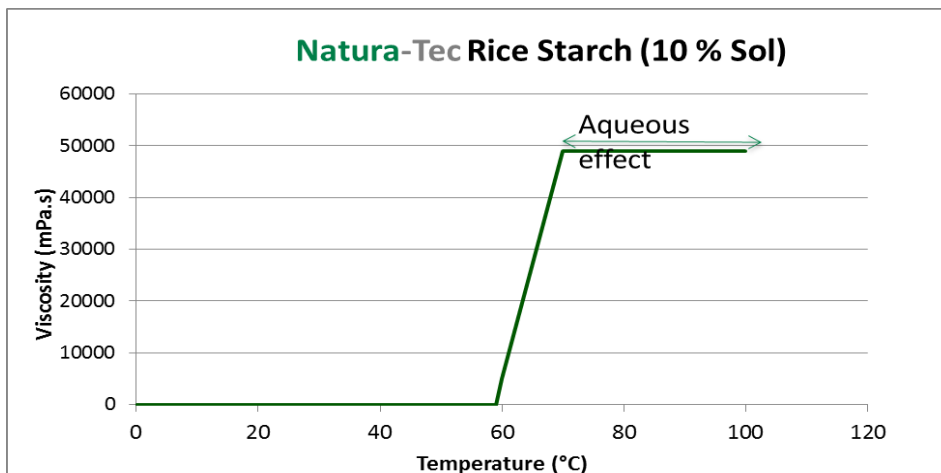


Without ultrasound the Rice Starch can agglomerate and the particle size is higher

50% of particle size	0,2 – 17 µm
25% of particle size	17 – 30 µm
17,5% of particle size	30 – 50 µm
7,5% of particle size	50 – 90 µm

BEHAVIOUR DEPENDING TO HEAT

Natura-Tec Rice Starch has the peculiarity to have 2 different behaviors when introduced in a cosmetic formulation depending on the process of manufacture.



When introduced at temperature below 50°C at the end of the emulsion process, NATURA-TEC RICE STARCH contributes to an extraordinary soft-touch effect, with a long lasting powdery finish sensation. It also absorbs the excess of sebum on the skin and hair.

When introduced in the water phase and heated at 70°C, NATURA-TEC RICE STARCH provides an aqueous effect and with a low gellifying behaviour.

ABSORPTION CAPACITY

Natura-Tec Rice Starch (2,5g dry weight basis (db)) was mixed with 20mL distilled water/oil in a pre-weighted centrifuge tube and then homogenizes with ultrasonic baths for indirect sonication (RK 1050 CH). Centrifuged at 3000 g for 10 min at 25°C (VWR, MEGA STAR 1.6 / 1.6R) and the supernatant was decanted. Gain in weight was expressed as water/oil absorption capacity:

Natura-Tec Rice Starch	Absorption capacity (g/g)
Water absorption capacity	0.72±0.03
Oil absorption capacity	0.92±0.03

Mrs. Pascale Goyat; Sales, Marketing, Regulatory Director
 M. Ivan Shersheniuk; Regulatory Officer
 Fréjus, July 2023



This document completes the product technical and safety data sheet. Information contained in this notice are based on our current knowledge and relate to the product in the state in which it is delivered
This certificate does not exempt or prevent the user to test under its own responsibility the material described in the document