



**Mon-Droguiste.Com**  
39 Bis Rue Du Moulin Rouge  
10150 Charmont Sous Barbuise  
Tél : +33.(0)3.25.41.04.05  
Email : [contact@mon-droguiste.com](mailto:contact@mon-droguiste.com)  
Web : [www.mon-droguiste.com](http://www.mon-droguiste.com)

## Safety information Sheet Rice Starch

### Safety information sheet – Rice Starch

#### Section 1 – Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identification

Name:	Rice Starch (natural carbohydrate)
CAS Number:	9005-25-8
EC Number:	232-679-6
REACH Submission Number:	exempt from the registration obligation in accordance with the art. 2, paragraph 7, letter a of EC Regulation 1907/2006 (Annex IV)
UFI Code:	n.a.

##### 1.2 Identified Relevant Uses

Food additives  
Cosmetics  
Pharmaceutical industry

##### 1.3 Information on the supplier of the safety data sheet



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### 1.4 Emergency telephone number

Emergency telephone:

**118** public health emergencies

Poison Control Centers:

Centro Antiveleno di Bergamo Azienda ospedaliera Papa Giovanni XXIII, piazza OMS 1, Bergamo	800 88 33 00
Centro Antiveleno di Milano Ospedale Niguarda Cà Granda; piazza Ospedale maggiore 3, Milano	+39 02 66101029
IRCSS Fondazione salvatore Maugeri, via S. Maugeri 10, Pavia	+39 0382 24444
AOUI di Verona sede di borgo Trento, Piazzale A. Stefani 1, Verona	800.011.858
AOU Careggi, via largo Brambilla 3, Firenze.	+39 055 7947819
Policlinico Umberto I, Viale del policlinico 155, Roma	+39 06 49978000
Policlinico Agostino Gemelli, largo A. Gemelli 8, Roma	+39 06 3054343
Ospedale Pediatrico Bambino Gesù, piazza S. Onofrio 4, Roma	+39 06 68593726
A.O.R.N. Antonio Cardarelli, Via Cardarelli, 9, Napoli	+39 081 5453333
Azienda ospedaliera universitaria riuniti, viale Luigi Pinto 1, Foggia	800 183 459
Timetable	h 24, 7 days a week
Language of telephone service	Italian

## Section 2 - Hazard Identification

### 2.1 Substance classification

not necessary in accordance with EC Regulation 1272/2008

### 2.2 specific indications of danger for humans and the environment

Not applicable

### 2.3 Classification System

the classification corresponds to the current EC lists, integrated however with data taken from specific bibliography and data provided by the company.

### 2.4 Label elements (GHS)

Not applicable



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### Section 3 – Composition/information on ingredients.

#### 3.1 Rice Starch

Components	CAS Number	EC Number	Typical concentration
Starch	9005-25-8	232-679-6	88.5 %
Water			11.5%

Does not contain SVHC (Dir. 1907/2006/EC)

For the full text of the sentences mentioned in this section, refer to section. 16.

### Section 4 – First Aid measures

#### 4.1 Description of first aid measures

<u>Eyes</u>	Immediately flood the eye with plenty of water for at least 15 minutes, keeping the eye open. Remove contact lenses, if possible. Obtain medical attention.
<u>Skin</u>	None
<u>Ingestion</u>	It is a food, therefore, there are no risks, unless we are dealing with predisposed allergy sufferers; in case of allergic disorders consult your doctor.
<u>Inhalation</u>	For prolonged exposure it may have irritating effects if you notice irritation or allergic reactions consult a doctor.

#### 4.2 Main symptoms and effects, both acute and delayed.

None in particular

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No measures required, treat according to any symptoms encountered.



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### Section 5 – Fire Fighting Measures

If appropriately mixed with air, it could be flammable and give rise to explosion phenomena (storage silos, pneumatic transport lines). During the storage and product transfer phases, smoking and/or lighting open flames is prohibited; during the emptying operations of the tanks and containers it is mandatory to apply a discharge clamp to the ground, to avoid the possibility of ignition by electrostatic charges. The product transfer lines (understood as mechanical parts) must guarantee the absence of sparks and/or surface heating due to mechanical friction during their normal operation. The electrical systems present on site must be built and installed in accordance with current legislation and must be suitable for operation in a dusty/potentially explosive environment.

#### 5.1 recommended extinguishing systems

Suitable: Carbon dioxide – Dust – nebulized water

Not Suitable: None in particular

#### 5.2 Advice for Fire Fighters

Special exposure risks: Combustible substance, carbon oxidation

fire protection systems: normal equipment for fire fighters.

### Section 6 – measures to prevent accidental release.

#### 6.1 Handling Instructions

Avoid dust generation.

#### 6.2 Environmental precautions

No measures required.

#### 6.3 Methods and materials for containment and cleanup

Collect with mechanical systems.

#### 6.4 Additional information and references to other sections

No dangerous substances are released, section 8 contains more detailed information regarding personal protective equipment, refer to section 13 for information relating to disposal.



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### Section 7 – Handling and storage

#### 7.1 safe handling

- ✓ Accurate dust collection, store in a cool, dry place in perfectly closed drums.
- ✓ Accurate ventilation/extraction in workplaces

#### 7.2 Information regarding the risk of fire and explosion.

If properly mixed with air and properly triggered, it explodes.  
When handling open flames that are not smoking and/or lit, without sparks, during loading into the vehicle and during the filling phase, connect the earth clamp to the vehicle or container; in the presence of moving vehicles, apply the flame arrester to the vehicle's exhaust pipe.

#### 7.3 Storage

- ✓ Store in a cool, well-ventilated place, away from direct sunlight and heat sources.
- ✓ the fixed storage must be equipped with adequate earthing, all electrical equipment must be explosion-proof and integrated in compliance with current standards and directives.

### Section 8 – exposure control and personal protection

#### 8.1 control parameters

##### 8.1.1 Exposure limit values (national exposure limits)

Parameter	TLV-TWA				
Value	10 mg/m <sup>3</sup>				
Reference	ACGIH				

##### 8.1.2 DNEL (derived level of no effect)

Data not available

##### 8.1.3 PNEC (S) (predicted no-effect concentration)

Data not available



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### 8.2 individual exposure control

The application of basic principles of industrial hygiene will enable the safe use of the product, exposure to the product can be controlled in many ways, the appropriate measure for a specific processing depends on how the product is used in relation to its exposure scenario. If work planning and operational procedures are not implemented to prevent exposure, the following personal protective equipment should be used.

#### 8.2.1 eye/face protection



*In case of particularly dusty environments, the use of protective glasses is recommended.*

#### 8.2.2 Skin protection



*Protective gloves: The exact choice of the type of glove depends on the type of work to be carried out; the choice must also be made by consulting the glove manufacturer and after a definitive planning of the work to be carried out, the gloves must be replaced regularly; chemical protective gloves are appropriate, as they have been tested according to EN 374.*

#### 8.2.3 Other personal protective equipment/body protection



*Standard work clothing*



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### 8.2.4 Respiratory protection



*FFP1 type dust mask*

### 8.3 Environmental exposure control

See paragraph 12.

## Section 9 – chemical and physical properties

Parameter	Value
Appearance and color *	<i>Fine and light white powder solid</i>
Odor *	<i>Light, agreeable</i>
Chemical formula	<i>(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub></i>
Melting point	<i>Undefined</i>
Boiling point	<i>Not applicable</i>
Flash point	<i>&gt; 400°C</i>
Decomposition temperature	<i>c.ca 200°C</i>
Real density	<i>1350 g/l</i>
Apparent density	<i>550-600 g/l</i>
Hygroscopicity	<i>Yes</i>
Solubility in water	<i>Insoluble in water</i>
Moisture *	<i>10% – 15 % (typical 11,5%)</i>
Proteins (Nx5.7) *	<i>0.2-0.3% d.s.</i>
Ashes *	<i>0.1-0.3% d.s.</i>
Explosion limits in air	<i>min: 60 g/mc – max: 800 g/mc</i>
Dust explosion class	<i>ST1</i>
Max explosion pressure	<i>10 bar</i>
Kst	<i>190 bar m/sec</i>
Flammability class	<i>BZ3</i>
Minimum Ignition Energy	<i>30/300 mJ</i>



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### Section 10 – stability and reactivity

#### 10.1 Reactivity

The product does not decompose under normal conditions.

#### 10.2 chemical stability

Stable under normal conditions of use and handling

#### 10.3 Possibility of dangerous reactions

It does not give rise to dangerous reactions under normal conditions of use and handling.

#### 10.4 Conditions to avoid.

Avoid the formation of dust mists especially in the presence of possible ignition sources; a dust concentration in air between 60 g/m<sup>3</sup> and 3000 g/m<sup>3</sup> is potentially explosive.

Industrial handling of this product requires at least a preliminary assessment in compliance with the directives regarding the risk of dust explosion.  
for Italian legislation the reference is the Legislative Decree. 81/08 Title XI art. 287 – 297 ref. Annex XLIX – Annex L (protection from explosive atmospheres).

#### 10.5 Incompatible materials/substances

Avoid contact with strong alkalis, strong acids, strong oxidizing agents, strong reducing agents.

#### 10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

### Section 11 – toxicological information

#### 11.1 Acute toxicity

LD 50	Value
Oral (mouse)	<i>No specific test data available</i>
Dermal (rabbit)	<i>No specific test data available</i>



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### 11.2 skin corrosion irritation

Non-irritating by simple contact

### 11.3 eye damage/irritation

It can have irritating effects.

### 11.4 sensitization of the respiratory tract

it can irritate the respiratory tract.

### 11.5 Cellular mutagenicity

No studies are available.

### 11.6 Carcinogenicity

The product is not carcinogenic.

### 11.7 Reproductive system toxicity

No studies are available.

### 11.8 STOT (specific target organ toxicity) single exposure.

No studies are available.

### 11.9 STOT (specific target organ toxicity) repeated exposure.

No studies are available.

### 11.10 Aspiration hazard

No risk of aspiration

### 11.11 Toxic kinetics

No studies are available.

### 11.12 Probable Types of exposure

Inhalation of dust is the most likely route of exposure during normal use.



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### 11.13 Symptoms relating to toxicological physical characteristics

#### 11.13.1 Ingestion

No data available

#### 11.13.2 Inhalation

No data available

### 11.14 collateral effects over time

There are no long-term side effects.

## Section 12 – Ecological information

### 12.1 Ecotoxicity

There are no data on possible ecotoxicity.

### 12.2 Persistence and biodegradability

biodegradability	100%
B.O.D.	± 700 mg/g (ds) O <sub>2</sub>
C.O.D.	± 1100 mg/g (ds) O <sub>2</sub>

### 12.3 Bioaccumulation potential

No data available

### 12.4 Ground mobility

Insoluble in water, not vaporizable

### 12.5 Results of the PBT assessment

Persistence evaluation	<i>The substance is easily biodegradable; therefore, it does not present P (persistent) and/or Vp (very persistent) characteristics.</i>
Evaluation of Bioaccumulation	<i>No data available</i>
Toxicity assessment	<i>No data available</i>



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### 12.6 Endocrine disrupting properties

Based on available information, this substance does not exhibit endocrine disrupting properties.

### 12.7 Other adverse effects

No other known adverse effects

## Section 13 – disposal considerations

### 13.1 Waste treatment methods

#### 13.1.1 Disposal of the substance

Dispose of in accordance with all applicable local and national regulations.

#### 13.1.2 Disposal of containers

Dispose of in accordance with all applicable local and national regulations.

## Section 14 – transportation information

### 14.1 Road and rail transport (ADR/RID)

Not applicable

### 14.2 Maritime transport (IMDG)

Not applicable

### 14.3 Air Transport (ICAO – TI / IATA – DGR)

## Section 15 – Regulatory information

### 15.1 Safety, health, and environmental standards

The data and information contained in this safety data sheet comply with the provisions of current national legislation on the classification, packaging and labeling of dangerous substances and preparations. In any case, the user is advised to check and comply with specific European, national, regional and local regulations regarding dangerous activities and environmental protection (e.g. liquid, solid and gaseous emissions).



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This safety data sheet has been drawn up in accordance with Reg. 1907/2006/EC and subsequent amendments. (Reach Regulation), Reg. (EU) 2020/878 of the commission of 18/06/2020, EC Reg. 1272/2008 (CLP Reg. – GHS): the product is not present in the candidate list of extremely problematic substances (SVHC) to the authorization.

### 15.1.1 Main regulatory references

#### National regulations (ITA)

D.lgs. 81/08 (rules on safety and hygiene at work)

D.lgs. n° 152/06 (environment rules)

#### EU regulations

Reg. 1272/2008 (CLP)

Reg. 1907/2006 (REACH)

Directive 2012/18/EU

### 15.2 Chemical safety assessment

A chemical safety assessment was not required for this substance.



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### Section 16 – other information

#### 16.1 Abbrevials

BMDL10	10% dosing level parameter
EC50	Concentration that has an effect on 50% of the organisms tested
LD50	Dose that causes 50% death of the tested organisms
IC50	Inhibition concentration, 50%
PBT	Persistent, Bio accumulative, Toxic
vPvB	Very persistent, very bio accumulative
NO(A)EL/C	Non-adverse concentration
CSR	Chemical safety report
DNEL	Derived level of no effect
DMEL	Derived minimum effect level
PNEC	Predicted no-effect concentration
STOT	Specific target organ toxicity
(STOT) RE	Repeated exposure
(STOT) SE	Single exposure
TLV®TWA	Threshold limit value – time weighted average
TLV®STEL	Threshold limit value – Limit for short exposure time
OECD	Organization for Economic Cooperation and Development
ACGIH	American conference of Governmental Industrial Hygienists

#### 16.2 Complete classification

Not applicable

#### 16.3 Risk phrases according to EC Reg. 1272/2008

Not applicable

#### 16.4 Other information about the Reg. EC 1272/2008

None



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### 16.5 Version history

Version 1: November 2016

Version 2: July 2019

Version 3: April 2021

Version 4: November 2023

- ✓ update to Reg. (EU) 2020/878 of the commission of 18/06/2020.

Version 5: April 2025

- ✓ Correction of CAS number in paragraph 3.1
- ✓ Update to Reg. (UE) 2023/707

### 16.6 Annex I

Annex I: Organic Rice Starch (CAS 9005-25-8/EINECS 232-689-6) verification of compliance with EC regulations 1907/2006 (Reach)