



Specification

Product Name: Inulin Powder

Product Code: SPEC0345

Description:

Our Inulin Powder is a premium-quality, natural ingredient extracted from chicory root. Highly versatile, it's perfect for enhancing a wide range of culinary creations. Inulin is valued for its ability to improve texture and mouthfeel, making it an excellent fat replacer in baking, a sugar substitute, a thickening agent for sauces, and a bulking agent in protein powders and meal replacement shakes. It dissolves easily in both hot and cold liquids, making it an effortless addition to smoothies, juices, baked goods, and more.

Specifications:

PHYSICAL AND CHEMICAL PROPERTIES					
	Min	Max	Typical	Unit	Method
Total solids	95	99		w%w (20°C)	BSCH011
Inulin	88			% on ds	/
Fructose, glucose, sucrose		12		% on ds	/
Ash content		0.2		%	/
pH	5.0	7.0			BSCH001
Arsenic		0.1		ppm	AAS
Lead		0.1		ppm	AAS
Cadmium		0.01		ppm	AAS
Mercury		0.01		ppm	AAS

MICROBIOLOGICAL PROPERTIES				
	Max	Typical	Unit	Method
Total mesophylic count	1000		/g	/
Yeasts	20		/g	/
Moulds	20		/g	/
Bacillus cereus	100		/g	ISO 7932
Listeria monocytogenes	neg.		/25g	TS EN ISO 11290-1
Enterobacteria	neg.		/g	ISO 7402
Staphylococcus aureus	neg.		/g	TS 6582-1 EN ISO 6888-1
Salmonella	neg.		/375 g	ISO 6579

Ingredients:

Inulin Powder

Dietary Information:

Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free, Non-Irradiated.

Storage:

Store in dry, cool conditions and not in direct sunlight.



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Registered UK Company No: 08758412 | UK VAT No: GB175274393

**Packaging:**

100g	5056191026331
250g	5056191026348
500g	5056191026355
5kg	5056191026362
10kg	5056191026379

Shelf Life:

60 months if stored as above and unopened.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N

Material Safety Data Sheet**1: Identification of the substance/mixture and of the company/undertaking:****1.1 – Product identifier**

Product Name: Inulin Powder

1.2 – Relevant identified uses of the substance or mixture and uses advised against:

Uses of the substance/mixture: Food ingredient, feed material.

1.3 – Details of the supplier of the safety data sheet:

Company: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247

1.4 - Emergency Telephone Contact: 07387 330318. <https://specialingredients.co.uk/pages/contact>

2: Hazards Identification:**2.1 – Classification of the substance or mixture:**

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**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

2.2 – Label elements:**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Since the substance or preparation doesn't meet the criteria of Article 31 of the REGULATION (EC) No 1907/2006 (REACH), a Safety Data Sheet is legally not required.

2.3 – Other hazards:

Dust may be explosive mixture in air.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3: Composition/Information on Ingredients:**3.1 – Substances:**

Chemical nature: chicory derived β (2-1) fructans

Components:

Remarks: No dangerous ingredients according to Regulation (EC) No. 1907/2006.

4: First Aid Measures:**4.1 – Description of First Aid Measures:**

General: The product is not toxic.

If inhaled: Fresh air. If symptoms persist, call a physician.

In case of skin contact: Wash off with plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

If swallowed: Drink plenty of water. If symptoms persist, call a physician.

4.2 – Most important symptoms and effect, both acute and delayed:

Symptoms: No information available.

4.3 – Indication of any immediate medical attention and special treatment needed:

Treatment: Treat Symptomatically.

5: Firefighting Measures:**5.1 - Extinguishing media:**

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Suitable extinguishing media: Water spray. Carbon dioxide (CO₂). Foam. Dry Powder.

Unsuitable extinguishing media: High volume water jet.

5.2 – Special hazards arising from the substance or mixture:

Specific hazards during fire-fighting: Risk of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 – Advice for firefighters:

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Avoid generating dust, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

6: Accidental Release Measures:

6.1 – Personal precautions, protective equipment and emergency procedures:

Personal precautions: Avoid breathing dust. Ensure adequate ventilation.

6.2 – Environmental Precautions:

Environmental precautions: Do not flush into surface water or sanitary sewer system.

6.3 – Methods and material for containment and cleaning up:

Methods for cleaning up: Take up dry (mechanical). Forward for disposal. Clean up affected area. Avoid dust formation.

6.4 – Reference to other sections:

Refer to protective measures listed in Sections 7 and 8.

7: Handling and Storage:

7.1 – Precautions for safe handling:

Advice on safe handling: Do not breathe dust. Avoid dust formation. Provide adequate ventilation.

Advice on protection against fire and explosion: Take precautions against dust explosion. Keep workplaces clean, avoid dust accumulation. Keep away from sources of ignition – No smoking. Observe explosion protection regulations!

Hygiene measures: Take off contaminated clothing. Wash hands before breaks and at the end of the workday.

Dust explosion class: St1.

7.2 – Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers: Keep in a dry place. Protect from moisture.

Further information on storage conditions: Store at room temperature.

7.3 – Specific end use(s):

Specific use(s): This information is not available.

8: Exposure Controls/ Personal Protection:

8.1 – Control parameters:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.



8.2 – Exposure controls:

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection: Goggles (in case of dust exposure).

Hand protection: Not required. For prolonged or repeated contact use protective gloves.

Respiratory protection: Respirator must be worn if exposed to dust. Suitable mask with particle filter P1 (EN 143).

Protective measures: Do not breathe dust. Avoid contact with skin, eyes and clothing. When using, do not smoke.

9: Physical and Chemical Properties:

9.1 – Information on basic physical and chemical properties:

Physical state: powder

Colour: white - brownish

Odour: odourless - slightly caramelized

Softening point: No data available

Boiling point/boiling range: No data available

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: > 30 g/m³. Dust may form explosive mixture with air.

Flash point: No data available

Minimum ignition temperature: > 320 °C

Decomposition temperature: No decomposition if stored and applied as directed.

pH: ca. 4 - 7 (20 °C). Concentration: 50 g/l

Viscosity, kinematic: Not applicable

Water solubility: partly soluble (20 °C)

Bulk density: ca. 400 - 800 kg/m³

Particle Size Distribution: For further details on particle size/particle size distribution, see the corresponding product information.

9.2 – Other information:

Explosives: Not explosive

May form explosive dust-air mixture during processing, handling or other means.

Dust explosion class: St1

Minimum ignition energy:	Grainsize	-	MIE (with inductance) -	MIE (without inductance)
- Milled dust version:	100 % < 63 µm	-	3 – 10 mJ	- 30 – 100 mJ
	100 % < 70 µm	-	10 – 30 mJ	- 100 – 300 mJ
- Original Product:	95 % < 125 µm	-	100 – 300 mJ	- > 1000 mJ

10: Stability and Reactivity:

10.1 – Reactivity:

No decomposition if stored and applied as directed.

10.2 – Chemical Stability:

Stable under normal conditions.

**10.3 - Possibility of hazardous reactions:**

Hazardous reactions: Like most organic material in powder form, the product can form explosive dust-air mixtures when finely dispersed in air.

10.4 – Conditions to avoid:

Conditions to avoid: Avoid dust formation. Strong heating (decomposition). Keep away from heat / sparks / open flames / hot surfaces. No smoking. Protect from moisture.

10.5 – Incompatible materials:

Materials to avoid: Strong oxidizing agents.

10.6 – Hazardous decomposition products:

Thermal decomposition: No data available.

11: Toxicological Information:**11.1 – Information on toxicologies effects:****Acute toxicity****Product**

Acute oral toxicity: LD50: Assessment: The substance or mixture has no acute oral toxicity. Expert judgement.

Acute dermal toxicity: LD50: Assessment: The substance or mixture has no dermal toxicity. Expert judgement.

Skin corrosion/irritation**Product**

Result: low irritant effect - not necessary to label

Serious eye damage/eye irritation**Product**

Result: low irritant effect - not necessary to label.

Respiratory or skin sensitisation**Product**

Result: No sensitizing effects known.

Germ cell mutagenicity**Product**

Germ cell mutagenicity - Assessment: Contains no ingredient listed as a mutagen

Carcinogenicity**Product**

Carcinogenicity - Assessment: Contains no ingredient listed as a carcinogen

Reproductive toxicity**Product**

Reproductive toxicity - Assessment: Contains no ingredient listed as toxic to reproduction

STOT - single exposure**Product**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Product**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity**Product**

No aspiration toxicity classification

11.2 – Information on other hazards**Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Quantitative data on the toxicity of this product are not available to us.

Health injuries are not known or expected under normal use.

12: Ecological Information:**12.1 – Toxicity:****Product:**

Toxicity to fish: LC50 : No data available

12.2 – Persistence and Degradability:

Biodegradability: rapidly biodegradable

12.3 - Bioaccumulative Potential:**Product:**

Bioaccumulation: No data available

12.4 - Mobility in soil:**Product:**

Mobility: No data available

12.5 - Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 – Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 – Other adverse effects

We have no quantitative data concerning the ecological effects of this product.

Ecological injuries are not known or expected under normal use.

13: Disposal Considerations:

**13.1 – Waste treatment methods:**

Product: Dispose of in accordance with local regulations. Product in solid state can be disposed e.g. as commercial waste.

14: Transport Information:**14.1 UN number or ID Number**

ADN: Not regulated as a dangerous good

ADR: Not regulated as a dangerous good

RID: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

IATA: Not regulated as a dangerous good

14.2 UN proper shipping name

ADN: Not regulated as a dangerous good

ADR: Not regulated as a dangerous good

RID: Not regulated as a dangerous good

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IATA: Not regulated as a dangerous good

14.3 Transport hazard classes

ADN: Not regulated as a dangerous good

ADR: Not regulated as a dangerous good

RID: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

IATA: Not regulated as a dangerous good

14.4 Packing group

ADN: Not regulated as a dangerous good

ADR: Not regulated as a dangerous good

RID: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

IATA: Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 – Special precautions for user:

Not applicable

14.7 – Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

15: Regulatory Information:**15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable

Water hazard class (Germany): nwg not water endangering *Classification according to AwSV, §3 Abs. 3*



15.2 – Chemical safety assessment:

A Chemical Safety Assessment is not required for this substance.

16: Other Information:

Full text of other abbreviations:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

AIIC - Australian Inventory of Industrial Chemicals

ASTM - American Society for the Testing of Materials

bw - Body weight

CLP - Classification Labelling Pack-aging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen or Reproductive Toxicant

DIN – Standard of the German Institute for Standardisation

DSL - Domestic Substances List (Canada)

ECHA - European Chemicals Agency

EC-Number - European Community number

ECx - Concentration associated with x% response

ELx - Loading rate associated with x% response

EmS - Emergency Schedule

ENCS - Existing and New Chemical Substances (Japan)

ErCx - Concentration associated with x% growth rate response

GHS - Globally Harmonized System

GLP - Good Laboratory Practice

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 - Half maximal inhibitory concentration

ICAO - International Civil Aviation Organization

IECSC - Inventory of Existing Chemical Substances in China

IMDG - International Maritime Dangerous Goods

IMO - International Maritime Organization

ISHL - Industrial Safety and Health Law (Japan)

ISO - International Organisation for Standardization

KECI - Korea Existing Chemicals Inventory

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

MARPOL - International Convention for the Prevention of Pollution from Ships

n.o.s. - Not Otherwise Specified

NO(A)EC - No Observed (Adverse) Effect Concentration

NO(A)EL - No Observed (Adverse) Effect Level

NOELR - No Observable Effect Loading Rate

NZIoC - New Zealand Inventory of Chemicals

OECD - Organization for Economic Co-operation and Development

OPPTS - Office of Chemical Safety and Pollution Prevention

PBT - Persistent, Bioaccumulative and Toxic substance

PICCS - Philippines Inventory of Chemicals and Chemical Substances

(Q)SAR - (Quantitative) Structure Activity Relationship

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals



RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SADT - Self-Accelerating Decomposition Temperature

SDS - Safety Data Sheet

SVHC - Substance of Very High Concern

TCSI - Taiwan Chemical Substance Inventory

TECI - Thailand Existing Chemicals Inventory

TRGS - Technical Rule for Hazardous Substances

TSCA - Toxic Substances Control Act (United States)

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

The information contained herein is to the best of our knowledge, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.