



Specification

Product Name: Konjac Gum Powder

Product Code: SPEC0035

Description:

Konjac Powder is a completely natural product made from the fibre root of the Konjac plant. Unlike many thickeners, it is Gluten free. Konjac Powder is a strong thickener and has about 10 times more thickening power than traditional corn starch. Use as a thickener in a large variety of ways such as soups, sauces, gravy, custard, casseroles, to thicken fillings in pies and puddings and a wide variety of food applications. Konjac Powder is low calorie and an essential ingredient in Vegan cooking.

Specifications:

E-Number	425 (i)
Origin	China
Source	The hydropcolloidal polysacchaide obtained from the tubers of the tuberous roots of the Konjac plant (Amorphophallus Konjac K. Koch)
Composition	The principal component is a high molecular weight (200-2000 kDa), slightly branched, non-ionic glucomannan consisting of mannose and glucose, connected by β -1,4 linkages, at a respective molar ratio of approximately 1.6-4:1; acetyl groups along the glucomannan backbone contribute to solubility properties and are located, on average, every 9 to 19 sugar units.

Manufacturing (process flow)

Konjac tubes → slicing → drying → grinding → wash with water / ethanol mixture → wet grinding → drying → sieving → packing

Appearance	White to slightly brownish free flowing powder
Odour	Odourless
Taste	Neutral
Viscosity (1% Solution, 30°C)	≥ 36000 mPa*s (36 kgm-1s-1)
Sieve analysis, 120 mesh	≤ 10% retained
PH (when dispersed in water)	5.0-7.0
Moisture (loss on drying, 3h at 105°C)	≤ 10%
Sulphite as SO₂	≤ 300 mg/kg
Total ash (800°C, 3 - 4h)	≤ 3.0%

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Assay (Glucomannan)/ Analiza (Glukomannan)	≥ 95%
Heat stable gel with K₂CO₃	A thermally stable gel is formed
As	≤ 2 mg/kg
Pb	≤ 1 mg/kg
Cd	≤ 1 mg/kg
Hg	≤ 0.1 mg/kg
Total viable aerobic count (TAMC)	≤ 3000 cfu/g
Total yeast & mould count (TYMC)	≤ 100 cfu/g
Escherichia coli	Absent in 5g
Salmonella spp.	Absent in 25g

HACCP/ HACCP	This product has been processed (after primary production) on processing plants which has implemented, and are maintaining, food hygiene procedures based on the HACCP principles.
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Laboratory Quality Control System

The reported analytical parameters are analysed by laboratories with a documented quality control system, based on recognised principles for quality assistance laboratories.

Extraction Solvents – Purity (Dir 32/2009/EC)

All extraction solvents are toxicologically safe in any respect as per Directive (EC) No. 32/2009 (including amendments), specifically, for As and Pb, residues does not exceed 1mg/kg.

GMO (Regulation 1829/2003/EC & Reg 1830/2003/EC)

This product does not need to be labelled regarding any genetic modification as per the GMO regulations (EC) 1829/2003 and 1830/2003 (including amendments).

Non-Irradiation (Dir 2/1999/EC, Dir 3/1999/EC & Reg. 1169/2011)

This product, or any constituent thereof, is not irradiated.

Pesticides

This product is subject to statistical quality-control, and is free from pesticides as per regulation (EC) No. 396/2005 (including amendments) – analytical results available upon request.

Allergens (Dir 13/2000/EC & Regulation 1169/2011)

This product is free from allergens.

Heavy Metals in Food Supplements (Regulation 1881/2006/EC)

This product complies with the maximum level of heavy metals (Pb: 3.0 mg/kg, Cd: 1.0 mg/kg, HG: 0.10 mg/kg) set forth in regulation of EC No. 1881/2006 (including amendments) regarding food supplements as sold.

Food Packaging Materials, Regulation 1935/2004/EC & Regulation 2023/2006/EC

The packaging material used for this product within its complete life-cycle is in accordance with Regulation (EC) No. 1935/2004/EC on materials and articles intended to come in contact with food, and produced according to the good manufacturing practice for materials and articles intended to

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come into contact with food (Regulation 2023/2006 – including amendments).

Change control

Herewith we confirm that no changes to the production process, which could affect the product quality, safety and efficacy will be introduced without prior notice and acceptance, in writing.

Ingredients:

Konjac Gum (E425)

Dietary Information:

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

Nutritional Information:

Based on typical content/100g: Energy: 749kj/179kCal, Fat: <0.1g, Of which saturates: 0.0g, Carbohydrate: 4.1g, Of which sugars: 2.9g, Protein: 0.0g, Salt: 0.05g, Fibre: 83.5g.

Storage:

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

Packaging:

Size	EAN
100g	5056191001611
250g	5056191001628
500g	5056191001635
5kg	5056191008962
10kg	5056191008979

Shelf Life:

24 months from production date.

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: Substance/Preparation and Company Identification:

1.1 - Product Name: Konjac Gum,

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

Identified uses: Food and beverages as gelling agent, thickener, stabilizing agent, water binding agent and film forming.

1.3 – Details of the Supplier of the Safety Data Sheet

Supplier: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247. E-mail address: <https://specialingredients.co.uk/pages/contact>, Emergency Telephone Contact: 07701 095864.

2: Hazard Identification:

2.1 – Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 of 16 December 2008. On classification, labelling and packaging (CLP)

The product is not classified as hazardous under applicable regulations.

2.2 – Label Elements

Hazard pictograms:	Not applicable
Password:	Not applicable
Hazard statements:	Not applicable

2.3 – Other hazards

Not applicable.

3: Composition / Information on Ingredients

3.1 – Substances

The composition according to the Regulation of 1272/2008.

Konjac Gum 100%

Components:	Glucomannan
CAS No.:	37220-17-0
EC No.:	253-404-6

4: First Aid Measures:

4.1 – Description of first aid measures

For advice:	Contact a Poisons Information Centre or a doctor.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation:	Not available.
Eye Contact:	Check for and remove and contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact:	Wash with soap and water. Cover the irritated skin with an emollient. Get

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	medical attention if irritation develops.
Serious Skin Contact:	No available.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, ties, belt or waistband.
Serious Ingestion:	Not available.

4.2 – Most important symptoms and effects, both acute and delayed
No data available.

4.3 – Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5: Firefighting Measures:

5.1 – Extinguishing media
Regular foam, water fog, carbon dioxide, and sand.

5.2 – Special hazards arising from the substances or mixture

Flash point:	Not applicable.
Explosive limit:	Not applicable.
Autoignition temperature:	No data.
Hazardous products of combustion:	May form carbon dioxide and carbon monoxide.
Fire and explosion hazards:	Organic dusts can form explosive mixtures in air.
NFPA Rating:	Health-1, Flammability-1, Reactivity-0

5.3 – Advice for firefighters

Wear a self-contained breathing apparatus with a full face piece. Operate in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

6: Accidental Release Measures:

6.1 – Personal precautions, protective equipment and emergency procedures

Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:	Use a shovel to put the material into a convenience waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

6.2 – Environmental precautions

No data available

6.3 – Methods and material for containment and cleaning up

No data available

6.4 – Reference to other sections

No data available

7: Handling And Storage:

7.1 – Precautions for safe handling

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under fume hood. Ground all equipment containing material. Do not breath dust.

7.2 – Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Keep containers slightly closed when not in use – check regularly for spills. Keep container in a cool, well-ventilated area.

7.3 – Specific end use(s)

No data available.

8: Exposure Controls/ Personal Protection:

8.1 – Control parameters

Exposure Limits: No data available.

8.2 – Exposure controls

Spill, leak and waste Use vacuum or broom for sweeping & remove to disposal container.

disposal procedures: If the container is damp, flush with water.

Water Disposal: Dispose of in approved disposal site according to Local, State & Federal Regulations. May be incinerated where permitted. (Rinse with water into-approved sewer or bury in approved landfill. Mixing with water produces a very viscous solution)

Eye Protection: Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

Skin Protection: Wear resistant glove such as latex.

Respiratory: 3M Dust respirator No. 8710 or 9900 is recommended or a NIOSH/MSHA jointly approved dust respirator.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Exposure Controls: Component.

9: Physical and Chemical Properties:

9.1 – Information on basic physical and chemical properties

Appearance	Off White to Beige Speckled powder
Physical Form	Powder
Colour	Off White to Beige
Odour	Odourless (Konjac characteristic)
Melting Point	No data
Vapour Pressure (Mm Hg)	No data
Boiling Point	No data
Solubility in Water	Complete



Evaporation Rate (n-BuAe-1)	No data
Liquid Density	No data
Percent Volatiles	No data
State	Solid

9.2 – Other Information

No data available.

10: Stability and Reactivity:

10.1 – Reactivity

No data available.

10.2 – Chemical Stability

Stable.

10.3 – Possibility Of Hazardous Reactions

No data available.

10.4 – Conditions To Avoid

No data available.

10.5 – Incompatible Materials

Strong oxidizing agents.

10.6 – Hazardous Decomposition Products

Hazardous Polymerization:

Product will not undergo hazardous polymerization.

Hazardous Decomposition:

May form carbon dioxide and carbon monoxide.

11: Toxicological Information:**11.1 – Information On Toxicological Effects**

Routes Of Entry	Inhalation. Ingestion.
Toxicity To Animals	LD50: Not available. LC50: Not available.
Chronic Effects On Humans	Not available.
Other Toxic Effects On Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: It is unlikely to cause skin irritation or injury. Eyes: Dust can cause mechanical eye irritation. Inhalation: This material may produce dust. Breathing in small amounts of this material is not likely to be harmful. Ingestion: Swallowing this material is not likely to be



harmful.

The toxicological properties of this substance have not been fully investigated.

12: Ecological Considerations:

12.1 – Toxicity

Ecotoxicity: Not available

12.2 – Persistence and degradability

Possible hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.3 – Bio accumulative potential

No data available.

12.4 – Mobility in soil

No data available

12.5 – Results of PBT and vPvB assessment

No data available

12.6 – Other adverse effects

No data available.

13: Disposal Considerations:

13.1 – Waste treatment methods

Waste must be disposed of in accordance with local environmental control regulations.

14: Transport Information:

14.1 – UN number

Is not subject to.

14.2 UN proper shipping name

Konjac Gum.

14.3 – Transport hazard class(es)

Marine Transport: Not classified as Dangerous Goods by the the criteria of IMO International

Maritime Dangerous Code (2016) Edition for transport by sea; NON-DANGEROUS-GOODS.

Air Transport: Not classified as Dangerous Goods by the criteria of the IATA Dangerous Goods Regulation (DRG) 60th Edition for transport by air; NON-DANGEROUS GOODS.

14.4 – Packing group

No data available.

14.5 – Environmental hazards

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No data available.

14.6 – Special precautions for user

No data available.

14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available.

15: Regulatory Information:

15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 ws. REACH. Regulation of the European Parliament and Council Regulation (EC) No. 1272/2008 of 16 December 2008. On classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1995/45/EC and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L335 / 1 dated. 31.12.2008), as amended.

15.2 – Chemical safety assessment

No data available.

16: Other Information:

The information above is based on our current knowledge and product in the form in which it is used. Data concerning this product are presented in order to take account of safety requirements and does not guarantee its special properties. If the conditions of use of the product are not under the control of the manufacturer, the responsibility for the safe use of the product falls on the user. The employer is obliged to inform all employees who have contact with the product about the risks and safety measures specified in the data sheet.

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. We do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.