09-03-1001DOC	Technical Data Specification

Product Code:	BULK02PEA	Technical Data Specification ID:	TDS-BULK02PEA	Issue:	3
Product Name:	ORGANIC PEA PROTEIN POWDER (80%; HULLED)			Date:	19/09/2023

PRODUCT INFORMATION

BOTANICAL NAME	Pisum Sativum
COUNTRY OF ORIGIN	China
BRIEF DESCRIPTION	Peas can be dated back to early Egypt, Pakistan and Afghanistan however in modern times are spread across the globe used in a variety of culinary uses. Botanically a fruit, peas offer an array of available micronutrients. Our Hulled Pea Protein Powder is a great vegan way to boost your protein intake. Add our Hulled Pea Protein Powder to smoothies / drinks or mix into porridge, soups or desserts. Organic Pea Protein Powder (Hulled) is certified organic by the Soil Association under the code GB-ORG-05.
INGREDIENTS	100% Organic pea protein powder
INTENDED USE	Ready to eat or as a food ingredient
SUGGESTED USE	30g per day. Please consult your doctor before taking any nutrient-dense products.
PACKAGING/ NET WEIGHT	Food contact paper bag with polyethylene liner/ 20kg
SHELF LIFE & STORAGE	24 months from date of manufacture. Store in a cool, dry place, away from direct sunlight.

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NUTRITIONAL INFORMATION

Nutrition	Per 100g	Units
Energy	1535/363	kJ/kcal
Fat	2.4	g
of which saturates	0.5	g
of which mono-unsaturates	0.6	g
of which polyunsaturates	1.1	g
Carbohydrate	5.1	g
of which sugar	0	g
Fibre	4.8	g
Protein	83	g
Salt	1.5	g

We periodically review our nutrition information based on a risk assessment to account for seasonal variability, growing condition and other factors that cause nutrition result to vary. Please find our updated TDS.

The nutritional information provided in this document is based on nutritional testing and on average, as required by regulation (EC) No 1169/2011. The information is not meant to ensure warranty of characteristics. It comes without commitment and is not valid for any claim of warranty and product liability respectively.

ORGANOLEPTIC PROPERTIES

Appearance/Texture	Free flowing, fine powder
Flavour	Characteristic
Aroma	Characteristic
Colour	Light Yellow

PHYSICAL CHARACTERISTICS

Particle Size (mm)	100
Foreign Materials	Absent
Solubility	N/A
Density	N/A

CHEMICAL CHARACTERISTICS

Moisture	Max. 8%
Ash	Max. 8%
Water Activity	N/A

MICROBIOLOGICAL CHARACTERISTICS

Name	Maximum Limit	UoM
Plate Count	≤1000000	cfu/g
Yeast	≤10000	cfu/g
Mold	≤10000	cfu/g
E. Coli	≤100	cfu/g

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Salmonella	Not Detected	/25g
Bacillus Cereus	≤10000	cfu/g
Listeria	Not Detected	/25g
Clostridium Perfringens	≤10000	cfu/g
Staphylococcus Aureus	≤10000	cfu/g
Enterobacteriaceae	≤10000	cfu/g

DIETARY INFORMATION

Diet	Suitable For	Certified?	Comments
Organic	Yes	Yes	
Vegetarian	Yes	Yes	
Vegan	Yes	Yes	
Jewish / Kosher	Yes	Yes	
Muslin / Halal	Yes	No	Suitable but not certified

Alergens:-When purchased in bulk size original packaging, manufacturer allergen policy will apply.
When purchased in quantities that need re-packaging, our allergen policieis will apply.

Component	Manufacturer			Nuts in Bulk (Applies when bought in small quantities that need re-packaging)		
	In Product	Processed in Same Equipment	Handled on Site	In Product	Processed in Same Equipment	Handled on Site
Cereals containing GLUTEN and products thereof	NO	NO	NO	NO	YES	YES
EGGS or its derivatives	NO	NO	NO	NO	NO	NO
FISH or its derivatives	NO	NO	NO	NO	NO	NO
CRUSTACEANS / SHELLFISH	NO	NO	NO	NO	NO	NO
MOLLUSCS	NO	NO	NO	NO	NO	NO
PEANUTS or derivatives	NO	NO	NO	NO	YES	YES
SOYA BEANS or derivatives	NO	NO	NO	NO	YES	YES
MILK (LACTOSE) or its derivatives	NO	NO	NO	NO	YES	YES
NUTS , tree nuts:	NO	NO	NO	NO	YES	YES
CELERY, including celeriac and its derivatives	NO	NO	NO	NO	YES	YES
MUSTARD, referring to all parts of the plant and derivatives thereof	NO	NO	NO	NO	YES	YES
SESAME SEEDS or derivatives	NO	NO	NO	NO	YES	YES
SULPHITES >10ppm – Sulphite quantity to be given in ppm	NO	NO	NO	NO	YES	YES
LUPIN seeds or derivatives	NO	NO	NO	NO	NO	NO

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CONTAMINANTS

Heavy Metals (*lead, cadmium, mercury, tin, arsenic)*	According to Regulation (EC) No 2023/915
Mycotoxins (aflatoxins, ochratoxin A, patulin)	According to Regulation (EC) No 2023/915
Nitrates	According to Regulation (EC) No 2023/915
Polycyclic Aromatic Hydrocarbons (PAH)	According to Regulation (EU) No 2023/915

PACKAGING

Packaging description	**Paper bag with plastic liner**		
Pack size	20kg		
Objective Criteria	N/A		
Material Specification			
Primary packaging	Paper bag with plastic liner		
Print (Litho/Flexo)	N/A		
Colours	Paper bag – white; liner – transparent		
Material	Paper/ PE/PP		
*Packaging dimension in mm (L*W*H)*	850 x 550 x 150	Thickness	0.81mm
Weight of packaging	0.35kg		
Content of plastic food contact material (%)	N/A	*Content of metal & rubber (%)*	N/A
Recyclability	Partly-recycled (60%)		
Lamination/Layers	N/A	*Coating*	N/A
Sealing method	Sewed		
Secondary packaging	N/A		
Print (Litho/Flexo)	N/A		
Colours	N/A		
Material	N/A		
*Packaging dimension in mm (L*W*H)*	N/A	Thickness	N/A
Weight of packaging	N/A		
Content of plastic food contact material (%)	N/A	*Content of metal & rubber (%)*	N/A
Recyclability	N/A		

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Lamination/Layers	N/A	*Coating*	N/A
Sealing method	N/A		

Quality, Regulatory & Brand Integrity Compliance

Category	Compliance Criteria	Yes/No/N/A
Good Manufacturing Standards	The packaging meets hygiene and traceability requirements Regulation (EC) No. 2023/2006 on good manufacturing practice. FCMs should be manufactured in compliance with general and detailed rules on good manufacturing practice (GMP).	Yes
	Quality assurance system, quality control system, and documentation system is established, implemented, and maintained. The packaging supplier is GFSI certified to demonstrate GMP in the manufacturing process.	No
Paper & board	The packaging is chlorine free (TCF) or elemental chlorine free (ECF)	Yes
	Photo initiators –including benzophenone (4 methyl benzophenone) are not used	Yes
	Acrylamide is not used in printers and board mills	Yes
Printed packaging	low odor and migration inks and varnishes to ensure migration legislative limits on benzophenone and its derivatives are met	N/A
	ITX is not used as a photo initiator in printed inks	N/A
Packaging chemical migration test	Migration tests for packaging materials available.	Yes
	The packaging migration test include all legislatives chemical and Tinuvin UV absorber, phthalates and monomers – SVHCs Phthalates in plastic foils and bags	Yes
Non-intentionally added substances (NIAS)	The packaging is free from impurities that may be non-intentionally added to food-contact packaging material including substances such as contaminants, reaction and degradation products	Yes
Nano particles	The packaging does not contain or consist of engineered nanoparticles	Yes
PVC & PVCD	The plastic material is free from PVC	Yes
Mineral Oil Hydrocarbons	Migration of Mineral Oil Hydrocarbons (MOH), must meet German MOSH Benchmark Levels (send test report) and EU limits on MOAH	Yes
Chemical substance of very high concern (SVHC)	The packaging does not contain or use acrylamides, novolac glycidyl ethers, perfluoro-octane sulphonate, phthalates, NOGE, PFOS & PFOAS, PVC and Derivatives, Semi-carbazides, 4-methylbenzophenone	Yes
Additives	The material complies with EU food contact material legislation and does not contain dual additives chemicals e.g., Phosphoric Acid or Sulphur Dioxide	Yes
Recycled plastics	Comply with New Regulation (EU) 2022/16161 on recycled plastic materials and articles intended to come into contact with foods.	N/A
Bisphenol A	Does the packaging material for organic raw material contain Bisphenol in plastics and epoxy resin?	No
Metallized & rubber packaging e.g., foil bags	Packaging material does not contain Bisphenol and meet the limits Bisphenol A (BPA) BADGE, BFDGE**, NODGE**	Yes

Compostable packaging	The compostable/biodegradable packaging complies with European Standard for Compostable Packaging (EN13432)	N/A

The packaging is in accordance with the EU Legislation:

- Council Directive on Packaging and Packaging Waste 94/62/EC and its consecutive amendments.
- Commission Regulation (EC) No 1935/2004 on Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.
- Commission Regulation (EU) No 10/2011 on Plastic Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.

GMO FREE

This product is not subject to genetic modifications. Process controls are in place to ensure no accidental contamination with genetically modified materials, or materials derived thereafter, can occur. We hereby certify that this product is not subject to labeling under EU Regulations 1829/2003/EC and 1830/2003/EC on genetically modified food and feed.

WADA Statement

We declare that our products do not contain any of the substances mentioned in the Yearly updated “Prohibited List” from the World Anti-Doping Agency.

PESTICIDES

This product complies with the requirements outlined in Regulation (EU) 2018/848 of the European Parliament and of The Council (and consecutive amendments). It also complies with Soil Association strict organic farming standards. During the manufacturing process the product and the packaging materials are not exposed to pesticides or pesticide residues. Pesticides are not stored on site, nor used in the manufacturing or warehousing areas.

IRRADIATION AND ETHYLENE OXIDE

We declare that the product listed above is not treated with ionizing radiation (r2) or ethylene oxide (EtO) for any purposes and as such are free of gamma ray and ethylene oxide residue and complies with the EU regulation 1999/3/EC

BSE STATEMENT

This product is manufactured exclusively from plant source, and does not contain any components from animal origin. It has not been derived from any animal source, and has not come into contact with any components of animal origin.

RESIDUAL SOLVENTS

No residual solvents are used in the manufacturing process.

LEVEL OF UNDESIRABLE SUBSTANCES

The strictly controlled production process of this product ensures that the undesirable substances levels (heavy metals, PAH, mycotoxins, etc.) are below the limits identified by EU legislation (No 2023/915 on maximum levels for certain contaminants in

food and consecutive amendments, Commission Regulation No 2073/2005, including the recommendations provided by EFSA on food contaminants.

ANIMAL TESTING STATEMENT

NUTSINBULK confirms that we do not conduct or commission animal testing of any products.

ENDANGERED SPECIES OF FAUNA AND FLORA

None of our products are listed as banned on the world Convention on International Trade of Endangered Species of Fauna and Flora (CITES).

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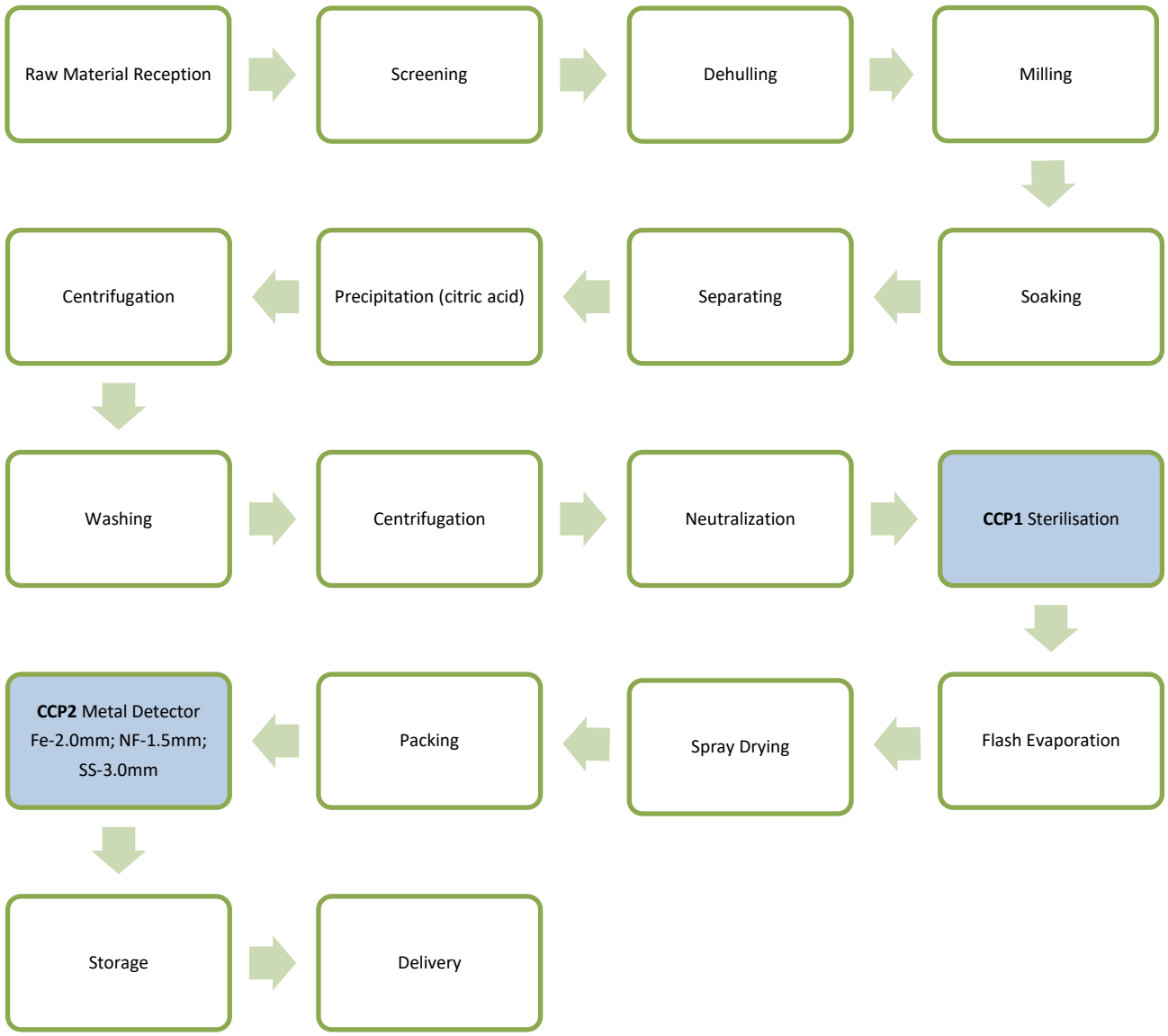
PROCESS FLOW



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MATERIAL SAFETY DATA SHEET

INGREDIENTS	100% Organic pea protein powder
HAZARD IDENTIFICATION	Not classed as hazardous. No adverse human effects known.
FIRST AID MEASURES	PEOPLE DEVELOPING SERIOUS HYPERSENSITIVE REACTIONS MUST RECEIVE IMMEDIATE MEDICAL ATTENTION.
SKIN	May cause irritation. Remove contaminated clothing. Wash with plenty of water.
INGESTION	Seek medical attention if required, Rinse mouth with plenty of water.
INHALATION	Powders May cause irritation of the respiratory tract, Remove exposure**.** Move to area with proper ventilation and fresh air. Seek medical attention if required.
EYES	May cause irritation. Wash out with plenty of water / eye solution for 15 minutes. Seek medical attention if irritation present.
FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA	Use appropriate media relating to other components of fire- can use: water spray, foam, dry chemical or carbon dioxide.
SPECIAL HAZARDS OF PRODUCT	As with most organic solids, fire is possible at elevated temperatures. Material in powder form, capable of creating a dust explosion.
PROTECTIVE EQUIPMENT FOR FIREFIGHTING	Wear full protective clothing and self-contained breathing apparatus.
ACCIDENTAL RELEASE MEASURES	
SPILLAGES	Treat as any other food material, vacuum clean up recommended if possible.
PERSONAL PRECAUTIONS	PPE, gloves, safety glasses, adequate ventilation and respiratory protection can reduce the risk of overexposure in the workplace.
ENVIRONMENTAL PRECAUTIONS	Minimize contamination of drains, surface and ground waters.
HANDLING AND STORAGE	
HANDLING	Ventilation devices in workplaces recommended.

STORAGE	Store away from air, moisture, heat and light exposure. Store in original container in cool, dark conditions.

EXPOSURE CONTROL / PERSONAL PROTECTION

BODY PROTECTION	Work wear factory coat preferably with cuffs or arm covers.
SKIN PROTECTION	Gloves
EYE PROTECTION	Goggles/ safety glasses
RESPIRATORY PROTECTION	In powder form- respiratory protection dust masks or respirators

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Powder
SOLUBILITY IN WATER	Partially Soluble
AUTO-IGNITION	Not applicable

STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions. Avoid exposure to air, light and humidity.
CONDITIONS TO AVOID	Prevent dust causing motions

TOXICOLOGY INFORMATION	Not applicable
ECOLOGICAL INFORMATION	This product is ultimately biodegradable.
DISPOSAL CONSIDERATIONS	Dispose of according to relevant local / national guidelines.
TRANSPORT INFORMATION	Non hazardous for air, sea and road freight.
REGULATORY INFORMATION	No data

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ADDITIONAL INFORMATION

This Product is 100% Natural; it is not considered hazardous.

This is an agricultural product; therefore, some batch variation may occur in terms of colour, flavour, odour, appearance and composition based on the growing conditions and seasonal variability.

DISCLAIMER

- The information in this document is believed to be true and accurate at the time of creation, however all statements contained in this document are made without warranty. The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of safety requirements. Therefore, it should not be construed as guaranteed specific properties of the product described.
- The entirety of the potential methods of use is not within our control and therefore no responsibility or liability will be assumed for use of this product.
- Our product specification may be subject to change without notice.

Version No:	Review Date:	Reason for the change	Changed by:	Authorized by:
3	19/09/2023	Updated into new template	G.Worrall	J. Chang

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Specification Agreement and Authorization

Please sign and return this page within 14 days of receipt of the specification.

If after a total of 28 days from the receipt of the specification we have not received either the signed acceptance page or discussed and recorded any derogation or deviation from this specification, we will deem that the specification has been accepted.

No further contact regarding formal approval of this specification will be made.

Supplier	Name	Position	Signature	Date
		Technical & Operations Director	*T. Kufa* I have authorized this form electronically	19/09/2023
Customer	**Name**	**Position**	**Signature**	**Date**