



## Product specification form

**Product: Organic Chia Seeds**

| FINISHED PRODUCT SPECIFICATION                                                                                                                  |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                   | Spec. No. SPEC046                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| General Information                                                                                                                             | Issued by:<br>NPM                                                                                                                                                                                                                                                           | Authorised by:<br>NPM                                                                                                                                                                             | Date of review:<br>19.01.2024, Issue 5              |
| Product Title                                                                                                                                   | Organic Chia Seeds                                                                                                                                                                                                                                                          |                                                                                                                                                                                                   |                                                     |
| Company Name and Address                                                                                                                        | Sun & Seed Ltd<br>2 Lyon Close<br>Woburn Road Industrial Estate<br>Kempston, Bedford<br>Bedfordshire<br>MK42 7SB, UK                                                                                                                                                        |                                                                                                                                                                                                   |                                                     |
| Company Telephone                                                                                                                               | Office: (+44) 02072 677 799, 01234 841 196                                                                                                                                                                                                                                  |                                                                                                                                                                                                   |                                                     |
| Contacts:                                                                                                                                       | Accounts<br>Technical                                                                                                                                                                                                                                                       | <a href="mailto:office@sunandseed.com">office@sunandseed.com</a> , <a href="mailto:info@sunandseed.com">info@sunandseed.com</a><br><a href="mailto:qcert@sunandseed.com">qcert@sunandseed.com</a> |                                                     |
|                                                                                                                                                 | Emergency/Recall                                                                                                                                                                                                                                                            | Mob: 079 44 777 201                                                                                                                                                                               |                                                     |
| Packaging format                                                                                                                                | Retail: PE Plastic pouches in cardboard box<br>Bulk: PP woven or paper sacks - 25kg<br>PP jumbo bags - 800kg or 1000kg                                                                                                                                                      |                                                                                                                                                                                                   |                                                     |
| Available Quantities                                                                                                                            | Retail: 90g, 170g, 500g<br>Bulk: 25kg, 800kg, 1000kg                                                                                                                                                                                                                        |                                                                                                                                                                                                   |                                                     |
| In case of organic product – write control body code or write N/A                                                                               | Sun and Seed Organic Certification Body Code: GB-ORG-05                                                                                                                                                                                                                     |                                                                                                                                                                                                   |                                                     |
| Food Safety                                                                                                                                     | RETAIL: SALSA Approved<br>BULK: IFS BROKER                                                                                                                                                                                                                                  |                                                                                                                                                                                                   |                                                     |
| Ingredients and Allergens                                                                                                                       |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                   |                                                     |
| Legal name / Descriptive name                                                                                                                   | Chia seeds, <i>Salvia hispanica</i>                                                                                                                                                                                                                                         |                                                                                                                                                                                                   |                                                     |
| Ingredients<br>(List all ingredients in recipe, include additives (with E number).<br>(Provide ingredients for any multi-component ingredients) | % in Recipe                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                   |                                                     |
| Organic Chia seeds                                                                                                                              | 100%                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                   |                                                     |
| Origin of primary ingredients                                                                                                                   | Paraguay, Bolivia, Mexico, Argentina, Peru, Uganda                                                                                                                                                                                                                          |                                                                                                                                                                                                   |                                                     |
| Current Ingredient Declaration / Legal Declaration<br>(include QUID and emphasised Allergens)                                                   | 100% Organic chia seeds<br>RETAIL PACKS ONLY: Allergy advice: May contain traces of nuts and sesame seeds                                                                                                                                                                   |                                                                                                                                                                                                   |                                                     |
| Sensory Specification<br>(Describe the product in terms of taste, texture, colour, appearance and aroma)                                        | Chia seed is small, oval, with mild flavour of fresh seed. It is hydrophilic (absorbs moisture), when the outer layer is hydrated swells and forms a gelatinous coating. Grains should be black, white and mottled grey. Free from dirt, glass, metal and foreign material. |                                                                                                                                                                                                   |                                                     |
| Allergens present in: ingredients, additives & processing aids                                                                                  | Contains                                                                                                                                                                                                                                                                    | Risk of cross contamination/<br>May Contain<br>RETAIL                                                                                                                                             | Risk of cross contamination/<br>May Contain<br>BULK |
| Cereals containing Gluten namely wheat, rye, barley, oats and hybridised strains                                                                | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Peanuts/peanut derivatives                                                                                                                      | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Nuts (almond, hazelnut, walnut, cashew, pecan, Brazil, pistachio, Macadamia) and derivatives                                                    | NO                                                                                                                                                                                                                                                                          | YES                                                                                                                                                                                               | NO                                                  |
| Sesame seeds/sesame seed derivatives                                                                                                            | NO                                                                                                                                                                                                                                                                          | YES                                                                                                                                                                                               | NO                                                  |
| Crustacean/crustacean derivatives                                                                                                               | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Molluscs/molluscs derivatives                                                                                                                   | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Fish/fish derivatives                                                                                                                           | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Egg/egg derivatives                                                                                                                             | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Milk/milk derivatives                                                                                                                           | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Soybeans/soybean derivatives                                                                                                                    | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Celery/celery derivatives                                                                                                                       | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Mustard/mustard derivatives                                                                                                                     | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Lupin/lupin derivatives                                                                                                                         | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Sulphites (declare if over 10mg/kg in whole product)                                                                                            | NO                                                                                                                                                                                                                                                                          | NO                                                                                                                                                                                                | NO                                                  |
| Suitability                                                                                                                                     |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                   |                                                     |
| Suitable for Vegetarians                                                                                                                        | YES                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                   |                                                     |



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| Suitable for Vegans                                                                                                                                                                                               | YES                                                                                                                                                                                |                         |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
| Suitable for Lacto-vegetarians                                                                                                                                                                                    | YES                                                                                                                                                                                |                         |                       |
| <b>Typical Nutritional declaration</b>                                                                                                                                                                            |                                                                                                                                                                                    |                         |                       |
| Source of Nutritional information                                                                                                                                                                                 | analysis / calculation                                                                                                                                                             |                         |                       |
| Typical value                                                                                                                                                                                                     | Per 100g                                                                                                                                                                           |                         |                       |
| Energy                                                                                                                                                                                                            | 2030 kJ / 486 kcal                                                                                                                                                                 |                         |                       |
| Total Fat                                                                                                                                                                                                         | 30.7 g                                                                                                                                                                             |                         |                       |
| of which saturates                                                                                                                                                                                                | 3.3 g                                                                                                                                                                              |                         |                       |
| monounsaturates                                                                                                                                                                                                   | 2.31 g                                                                                                                                                                             |                         |                       |
| polyunsaturates                                                                                                                                                                                                   | 23.7 g                                                                                                                                                                             |                         |                       |
| Carbohydrates                                                                                                                                                                                                     | 42.1 g                                                                                                                                                                             |                         |                       |
| of which sugars                                                                                                                                                                                                   | 0 g                                                                                                                                                                                |                         |                       |
| Fibre                                                                                                                                                                                                             | 34.4 g                                                                                                                                                                             |                         |                       |
| Protein                                                                                                                                                                                                           | 16.5 g                                                                                                                                                                             |                         |                       |
| Sodium                                                                                                                                                                                                            | 0.016 g                                                                                                                                                                            |                         |                       |
| Omega 3 Fatty Acid                                                                                                                                                                                                | 19 g                                                                                                                                                                               |                         |                       |
| Omega 6 Fatty Acid                                                                                                                                                                                                | 6.5 g                                                                                                                                                                              |                         |                       |
| Cholesterol                                                                                                                                                                                                       | 0                                                                                                                                                                                  |                         |                       |
| All stated Nutritional values are average. They are not meant to ensure warranty of characteristics. They come without commitment and are not valid for any claim of warranty and product liability respectively. |                                                                                                                                                                                    |                         |                       |
| <b>Product Handling</b>                                                                                                                                                                                           |                                                                                                                                                                                    |                         |                       |
| Minimum Shelf-life unopened                                                                                                                                                                                       | Minimum 12 months on delivery                                                                                                                                                      |                         |                       |
| Storage Conditions                                                                                                                                                                                                | Store at room temperature or less than 32°C. Product should be stored in a cool, dark and dry environment (less than 45% of humidity). After opening, keep the sack firmly closed. |                         |                       |
| Traceability / Lot Code Format Used                                                                                                                                                                               | BULK: Supplier code RETAIL: DDMMYY                                                                                                                                                 |                         |                       |
| Instructions for Use, if relevant                                                                                                                                                                                 | Ready to use                                                                                                                                                                       |                         |                       |
| <b>Additional Requirements</b>                                                                                                                                                                                    |                                                                                                                                                                                    |                         |                       |
| Origin / Place Of Provenance if required                                                                                                                                                                          | BULK packed in Paraguay, Bolivia, Mexico, Argentina, Peru, Uganda<br>RETAIL packed in UK                                                                                           |                         |                       |
| Type of Packaging used for retail, which consumers buy (film and cardboard box etc)                                                                                                                               | NA                                                                                                                                                                                 |                         |                       |
| Packaged in a protective atmosphere: (Vacuum packed or modified atmosphere packaging)                                                                                                                             | NO                                                                                                                                                                                 |                         |                       |
| Product-specific Requirements                                                                                                                                                                                     | NO                                                                                                                                                                                 |                         |                       |
| Health Mark (If product needs approval because ingredients of animal origin)                                                                                                                                      | N/A                                                                                                                                                                                |                         |                       |
| Warnings (vulnerable groups)                                                                                                                                                                                      | RETAIL PACKS ONLY: Allergy advice: May contain traces of nuts and sesame seeds                                                                                                     |                         |                       |
| <b>Quality or Safety Parameters</b>                                                                                                                                                                               |                                                                                                                                                                                    |                         |                       |
| Purity                                                                                                                                                                                                            | Minimum 99.95%                                                                                                                                                                     |                         |                       |
| Moisture                                                                                                                                                                                                          | Maximum 8%                                                                                                                                                                         |                         |                       |
| <b>Microbiological Parameters</b>                                                                                                                                                                                 |                                                                                                                                                                                    |                         |                       |
| *N/L – No Set Limit                                                                                                                                                                                               |                                                                                                                                                                                    |                         |                       |
| Microbiological Test                                                                                                                                                                                              | Unit                                                                                                                                                                               | Guide Value             | Limit Value           |
| Total Plate Count                                                                                                                                                                                                 | cfu/g                                                                                                                                                                              | < 1.0 · 10 <sup>6</sup> | *N/L                  |
| Yeast                                                                                                                                                                                                             | cfu/g                                                                                                                                                                              | < 1.0 · 10 <sup>4</sup> | *N/L                  |
| Moulds                                                                                                                                                                                                            | cfu/g                                                                                                                                                                              | < 1.0 · 10 <sup>4</sup> | *N/L                  |
| Coliforms                                                                                                                                                                                                         | cfu/g                                                                                                                                                                              | < 1.0 · 10 <sup>3</sup> | *N/L                  |
| E.coli                                                                                                                                                                                                            | cfu/g                                                                                                                                                                              | < 10                    | 1.0 · 10 <sup>2</sup> |
| Salmonella                                                                                                                                                                                                        | / 25g                                                                                                                                                                              | negative                | negative              |
| <b>Aflatoxins</b>                                                                                                                                                                                                 |                                                                                                                                                                                    |                         |                       |
|                                                                                                                                                                                                                   | Unit                                                                                                                                                                               | Guide Value             | Limit Value           |
| Aflatoxin B1                                                                                                                                                                                                      | µg/kg                                                                                                                                                                              | < 2.0                   | 2.0                   |
| Sum B1, B2, G1, G2                                                                                                                                                                                                | µg/kg                                                                                                                                                                              | < 4.0                   | 4.0                   |
| <b>Heavy Metals</b>                                                                                                                                                                                               |                                                                                                                                                                                    |                         |                       |
|                                                                                                                                                                                                                   | Unit                                                                                                                                                                               | Guide Value             | Limit Value           |
| Cadmium                                                                                                                                                                                                           | mg/kg                                                                                                                                                                              | < 0.1                   | 0.1                   |



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| Food additives        |             |
|-----------------------|-------------|
| Antioxidant           | not present |
| Raising agent         | not present |
| Emulsifier            | not present |
| Colour                | not present |
| Firming Agent         | not present |
| Humectant             | not present |
| Bulking agent         | not present |
| Gelling agent         | not present |
| Flavour enhancer      | not present |
| Sequestrant           | not present |
| Preservative          | not present |
| Flour treatment agent | not present |
| Modified starch       | not present |
| Protective gas        | not present |
| Acid                  | not present |
| Acidity Regulator     | not present |
| Foaming agent         | not present |
| Anti-foaming agent    | not present |
| Emulsifying salt      | not present |
| Stabiliser            | not present |
| Sweetener             | not present |
| Carrier               | not present |
| Propellant gas        | not present |
| Anti-caking agent     | not present |
| Glazing agent         | not present |
| Thickener             | not present |

| INFORMATION ABOUT GMO AND IONIZATION |                                                    |
|--------------------------------------|----------------------------------------------------|
| GMO                                  | The product is not GMO and does not contain GMO    |
| Ionization                           | The product is not subjected to ionizing radiation |

| Packing Retail*                    | 90g              | 170g           | 500g               |
|------------------------------------|------------------|----------------|--------------------|
| Unit gross weight:                 | 95.5g            | 177g           | 518g               |
| Unit size (cm):                    | 10 x 15          | 10 x 18        | 16x23              |
| Qty units in a case                | 20               | 20             | 12                 |
| Case dimensions: WxLxH (cm)        | 21.5 x 23 x 17   | 23 x 28 x 21.5 | 24.5 x 33.5 x 24.5 |
| Gross case weight                  | 2kg              | 3.7kg          | 6.4kg              |
| Number of layers per pallet:       | 8                | 6              | 5                  |
| Number of cases per layer:         | 15               | 14             | 10                 |
| Total number of cases per pallet:  | 120              | 84             | 50                 |
| Approx. gross weight per pallet:   | 250kg            | 321kg          | 330kg              |
| Approx. pallet height (in. pallet) | 160cm            | 155cm          | 140cm              |
| Pallet Length / Depth:             | 120 cm           |                |                    |
| Pallet Width:                      | 80 cm            |                |                    |
| Primary packaging:                 | PE Plastic Pouch |                |                    |
| Secondary packaging:               | Cardboard Case   |                |                    |
| Secondary packaging weight:        | 138g             | 173g           | 210g               |

| Packing Bulk*                 | 25kg         | 800kg           | 1000kg          |
|-------------------------------|--------------|-----------------|-----------------|
| Unit gross weight:            | 25.3kg       | 801.7kg         | 1001.7kg        |
| Approx. Unit Dimensions (cm): | 46 x 70 x 17 | 110 X 110 X 140 | 110 X 110 X 160 |
| Number of layers per pallet:  | 8            | 1               | 1               |
| Number of units per layer:    | 5            | 1               | 1               |



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|                                    |                                                                         |         |          |
|------------------------------------|-------------------------------------------------------------------------|---------|----------|
| Total unit quantity per pallet:    | 40                                                                      | 1       | 1        |
| Approx. Gross weight per pallet:   | 1012kg                                                                  | 811.7kg | 1011.7kg |
| Approx. Pallet Height (inc Pallet) | 160cm                                                                   | 150cm   | 180cm    |
| Pallet Length / Depth:             | 120cm                                                                   |         |          |
| Pallet Width:                      | 100 cm                                                                  |         |          |
| Primary packaging:                 | Bulk: PP woven or paper sacks - 25kg<br>PP jumbo bags - 800kg or 1000kg |         |          |

\* These packaging formats are based on maximum pallet quantities. Smaller or mixed orders will vary. Pallet configurations based on standard pallet; Euro pallets may be used.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Statements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>GMO Statement:</b> Sun & Seed Ltd has policy not to buy, manufacture or use genetically modified products or raw materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gluten Free Statement:</b> Sun & Seed Ltd has policy to buy, manufacture or use only gluten free products or raw materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Analysis Assessment Guaranty for tested Organic product:<br>Results of microbiological analysis are in line with HPA ready to Eat guidelines and meet European Union and UK regulations.<br>Results of aflatoxins and heavy metals analyses meet the requirements of the Commission Regulation (EU) 2023/915 setting maximum levels for certain contaminants.<br>Results of pesticide analysis meet the requirements of the Regulation (EC) 396/2005 on maximum residue levels of pesticides.<br>Results of pesticide analysis meet the orientation limit (0,01 mg/kg) and conform to European Union and UK regulations for organic products. |
| <b>HACCP:</b> The products are made safely, legally and consistently by following good hygiene practice and good manufacturing practice which are monitored through pre-requisite controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Signed:

Position: Quality Manager