

### Product Technical Dossier

|                  |                             |
|------------------|-----------------------------|
| Product          | Zinc Amino Acid Chelate-20% |
| CCL Product Code | P26032                      |

#### Specification Details

|                         | Specification         |
|-------------------------|-----------------------|
| Identification          | Positive              |
| Assay                   | Zinc content 20%- 25% |
| Appearance              | Powder                |
| Colour                  | White to Off-White    |
| Aroma                   | Characteristic        |
| Flavour                 | Characteristic        |
| Sieve Analysis % passed | Min 90% Pass 40 Mesh  |
| Loss on Drying          | Max 5%                |
| pH                      | 5-9                   |

#### Microbiological Limits

|                       |                |
|-----------------------|----------------|
| Total Viable Count    | Max 3,000cfu/g |
| Yeasts & Moulds       | Max 300cfu/g   |
| E. Coli               | Negative/10g   |
| Salmonella            | Negative/25g   |
| Coliforms             | Negative/10g   |
| Staphylococcus Aureus | Negative /10g  |

#### Heavy Metal Limits

|              |          |
|--------------|----------|
| Lead (Pb)    | Max 4ppm |
| Cadmium (Cd) | Max 1ppm |
| Mercury (Hg) | Max 1ppm |
| Arsenic (As) | Max 1ppm |

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Registered office: 203 Lancaster Way Business Park, Ely, Cambridgeshire, CB6 3NX, UK.

## Additional Technical Information

|                                     |   |
|-------------------------------------|---|
| The material is Food Grade          | Yes   |
| Country of Manufacture              | USA   |
| Cas number                          | Zinc Oxide 1314-13-2<br>Citric Acid 77-92-9   |
| Shelf Life from Date of Manufacture | Min 3 years   |
| Suitable for Vegetarians?           | Yes   |
| Suitable for Vegans?                | Yes   |
| Food Suitability                    | Zinc AA Chelate is not permitted for sale in foods pursuant to Annexes I and II to Directive 2002/46/EC. Therefore, this ingredient can only be sold for feed purposes within the EU. |
| Storage Conditions                  | This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.  |

## Composition Origin, Function and Percentages

| Ingredients | % composition |
|-------------|---------------|
| Citric Acid | 4.5% - 5.5%   |
| Zinc oxide  | 24.0% - 29.3% |
| Rice flour  | 54.7% - 82.0% |

## Nutritional Data

| Test                    | Value per 100g |
|-------------------------|----------------|
| Energy kJ / Kcal        | 619kJ/148kcal  |
| Fat (g)                 | 0.3g           |
| -Of which Saturates (g) | 0.07g          |
| Carbohydrate (g)        | 31.7g          |
| -Of which Sugars (g)    | 0.05g          |
| Fibre (g)               | 0.5g           |
| Protein (g)             | 3.0g           |
| Salt (g)                | 0.01g          |

Please note that surveillance testing may mean that not all the parameters stated on this specification are tested for every batch.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance, you should always speak to the competent authority for the market or member state in which the final products are placed.

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| Allergens   | Product Contains YES/NO | Listed Item on Site at Manufacturer YES/NO | Where applicable, is there risk of cross-contamination? YES/NO or N/A |
|---|-------------------------|--|---|
| Peanuts and Peanut Derivatives (including possible cross contamination)   | No                      | No   | N/A   |
| Nut and Nut Derivatives<br><i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i> | No                      | Yes  | No  |
| Sesame Seeds and Sesame Seed Derivatives  | No                      | Yes  | No  |
| Milk and Milk Derivatives (including lactose)   | No                      | Yes  | No  |
| Egg and Egg Derivatives   | No                      | No   | N/A   |
| Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten<br><i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)</i>  | No                      | Yes  | No  |
| Soya and Soya Derivatives   | No                      | Yes  | No  |
| Lupin and Lupin Derivatives   | No                      | No   | N/A   |
| Mustard and Mustard Derivatives   | No                      | Yes  | No  |
| Celery or Celery Derivatives (including Celeriac)   | No                      | Yes  | No  |
| Fish and Fish Derivatives   | No                      | Yes  | No  |
| Molluscs and their Derivatives  | No                      | No   | N/A   |
| Crustaceans and their Derivatives   | No                      | Yes  | No  |
| Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre  | No                      | No   | N/A   |

| Additives / Contaminants / Dietary Requirements / Intolerances   | Product Contains YES/NO | Listed Item on Site at Manufacturer YES/NO | Where applicable, is there risk of cross-contamination? YES/NO or N/A |
|--|-------------------------|--|---|
| Additives / E Numbers  | No                      | Yes  | No  |
| Antioxidants   | No                      | No   | N/A   |
| Ethylene Oxide   | No                      | No   | N/A   |
| Gelatine   | No                      | No   | N/A   |
| Flavourings (Artificial / Nature Identical / Natural / Smoked)   | No                      | Yes  | No  |
| Maize / Corn and any Derivatives   | No                      | Yes  | No  |
| Legumes / Pulses   | No                      | Yes  | No  |
| Rice and Rice Derivatives  | Yes                     | Yes  | No  |
| Added Salt   | No                      | No   | N/A   |
| Added Sugar / artificial or natural sweeteners   | No                      | Yes  | No  |
| Aspartame  | No                      | Yes  | No  |
| BHA / BHT (E320 / E321)  | No                      | No   | N/A   |
| Caffeine   | No                      | Yes  | No  |
| Colours (Artificial / Nature Identical / Natural / Smoked)   | No                      | Yes  | No  |
| Dextrose   | No                      | No   | N/A   |
| other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)  | No                      | Yes  | No  |
| Kiwi fruit   | No                      | No   | N/A   |
| Polyols (sugar alcohols)   | No                      | Yes  | No  |
| grape fruit  | No                      | No   | N/A   |
| Sorbic Acid (E200, E203)   | No                      | No   | N/A   |
| Any other Preservatives  | No                      | Yes  | No  |
| Ethanol  | No                      | No   | N/A   |
| Honey  | No                      | No   | N/A   |
| Lactose  | No                      | Yes  | No  |
| Yeast and Yeast Derivatives  | No                      | Yes  | No  |
| All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.) | No                      | Yes  | No  |
| Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)                                     | No                      | No   | N/A   |

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## Statements

|   |     |
|---|-----|
| <p><b>Confirmation of BSE / TSE Status</b><br/>This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.</p>  | Yes |
| <p>This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.</p>  | Yes |
| <p><b>Confirmation of GM Status</b><br/>This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.</p>   | Yes |
| <p><b>Confirmation of Non-Irradiation Status</b><br/>This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.</p>   | Yes |
| <p><b>Confirmation of Nandrolone Status</b><br/>This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.</p>  | Yes |
| <p><b>Confirmation of IOC Product Status</b><br/>This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.</p>   | Yes |
| <p><b>Confirmation of Animal Testing Status</b><br/>This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.</p>   | Yes |
| <p><b>Confirmation of Pesticides Status</b><br/>This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.</p>   | Yes |
| <p><b>Confirmation of Nanoparticles Status</b><br/>This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation, defines as follows: "Nanomaterial" means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".</p> | Yes |
| <p><b>Packaging Status</b><br/>We hereby certify that the packaging used in the above-mentioned material conforms to EU regulations and subsequent amendments on food grade packaging</p>   | Yes |
| <p><b>Confirmation of PAH status</b><br/>This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations</p>   | Yes |

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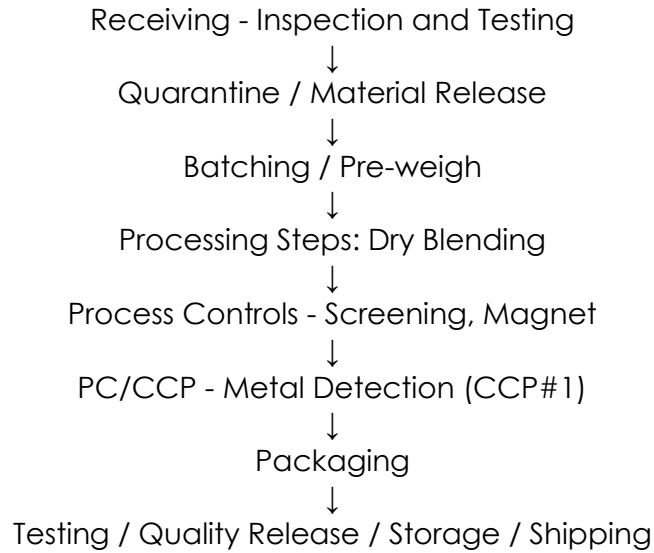
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Product Flow Chart



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## Material Safety Data Sheet

To download this product's material safety data sheet, please click [here](#) and search for the Cambridge Commodities product code. If there is no MSDS available, please follow the on-screen instructions to request one.

The Information provided in this document is subject to change and the batch specific certificate of analysis should always be referenced.

To be used as per local legislation.

### Change History

| Version | Change  | Customer Notification required Yes / No |
|---------|---|---|
| 1       | First Issue   | N/A                                     |
| 2       | Added food suitability  | Yes                                     |
| 3       | Amended name from Zinc Chelate 20% to Zinc Amino Acid Chelate-20% | Yes                                     |

### Document Approval

| Originator | Approver |
|------------|----------|
|            |          |

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