PRODUCT TECHNICAL DOSSIER

STEVIA EXTRACT STEVIOSIDES RA 97

Product Code:
P19241

Raw Material Full Name:
Steviosides

Raw Material Full Botanical/Chemical/Latin/Trade Name/Synonyms:
Stevia, Steviosides, Steviosin, Rebaudiosides A

This material is Food Grade:
Yes

Food Grade Packaging:
Yes

Total Steviol Glycosides %:
>98.00

Rebaudioside A%:
>97.00

Vegan / Vegetarian Status:
Suitable for Both

CAS Number:
Stevioside - 57817-89-7
Rebaudioside A - 58543-16-1

Molecular Formula for the raw material:
C_{44}H_{70}O_{23}

Average Molecular weight:
967.03

Particle Size:
60 Mesh & 80 Mesh

Percentage passed through:
NLT 95% & 90% Respectively
**Bulk Density:**
0.25g/cm³ - 0.7g/cm³

**pH:**
4.5 - 7

**Loss on Drying:**
Max 6%

**Residue on Ignition:**
Max 1%

**Country of Origin:**
China

**Country of Origin of the Manufacture:**
China

**Base Source/Start Material:**
Stevia Leaves

**Origin of Product – Synthetic, Plant, Mineral, Animal, Fish or Fermented:**
Plant

**Solvents used:**
Water & Ethanol

**What is the extraction/processing used? What solvents are used and at what ratio’s?**
Water & Ethanol 3:7

**Alcohol Residual:**
Max 5,000mg/kg

**Material is:**
100%

**Shelf Life from Date of Manufacture:**
Minimum 2 Years

**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.
Appearance (Fine/Crystals/Crystalline/Hygroscopic):
Powder

Colour:
White to Off White

Flavour/Taste:
Characteristic

Odour:
Characteristic

Microbiological Test

Total Viable Count:
Max 1,000cfu/g

Yeast & Moulds:
Max 100Cfu/g

E. coli:
Negative/10g

Salmonella:
Negative/25g

Heavy Metals

Lead (Pb):
Max 1ppm

Cadmium (Cd):
Max 1ppm

Mercury (Hg):
Max 0.1ppm

Arsenic (As):
Max 1ppm
Pharmacopeia Standard Used:

CP

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.

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

<table>
<thead>
<tr>
<th>Product Contains YES/NO</th>
<th>Listed Item on Site at Manufacturer YES/NO</th>
<th>If YES, Please Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peanuts and Peanut Derivatives (including possible cross contamination)</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
| Other Nut and Nut Derivatives  
Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoi Some (Wangen.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia) | No | No |
<p>| Sesame Seeds and Sesame Seed Derivatives | No | No |
| Other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds) | No | No |
| Milk and Milk Derivatives (including lactose) | No | No |
| Egg and Egg Derivatives | No | No |
| Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass) | No | No |
| Soya and Soya Derivatives | No | No |
| Lupin and Lupin Derivatives | No | No |
| Mustard and Mustard Derivatives | No | No |
| Celery or Celery Derivatives (including Celeriac) | No | No |
| Fish and Fish Derivatives | No | No |
| Molluscs and their Derivatives | No | No |
| Crustaceans and their Derivatives | No | No |
| Sulphur Dioxide and Sulphites (E220, E228) at levels &gt; 10mg/kg or 10mg/litre | No | No |</p>
<table>
<thead>
<tr>
<th>ADDITIVES / CONTAMINANTS / DIETARY REQUIREMENTS</th>
<th>Product Contains YES/NO</th>
<th>Listed Item on Site at Manufacturer YES/NO</th>
<th>If YES, Please Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additives</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Antioxidants</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Ethylene Oxide</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Gelatine</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Flavourings (Artificial / Nature Identical / Natural / Smoked)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Maize / Corn and any Derivatives</td>
<td>No</td>
<td>Yes</td>
<td>No risk of cross contamination.</td>
</tr>
<tr>
<td>Legumes / Pulses</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Rice and Rice Derivatives</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Added Salt</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Added Sugar / artificial or natural sweeteners</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Aspartame</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>BHA / BHT (E320 / E321)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Caffeine</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Colours (Artificial / Nature Identical / Natural / Smoked)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Dextrose</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Dioxins</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>MSG (Added and Naturally Occurring E621) or Glutamates (E620 to E625)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Nucleotides (E627, E630, E631, E635)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Polyols (sugar alcohols)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Benzoates (E210 / E219)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sorbic Acid (E200, E203)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Any other Preservatives</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>Yes</td>
<td>Yes</td>
<td>Used as solvent, residual solvent meets EU regulations.</td>
</tr>
<tr>
<td>Honey</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lactose</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Yeast and Yeast Derivatives</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
**NUTRITIONAL DATA**

<table>
<thead>
<tr>
<th>Test</th>
<th>Calculated Value per 100gm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy KJ / Kcal</td>
<td>28 KJ / 7 Kcal</td>
</tr>
<tr>
<td>Fat</td>
<td>0.03g</td>
</tr>
<tr>
<td>- Of which saturates</td>
<td>0.02g</td>
</tr>
<tr>
<td>Carbohydrate</td>
<td>1.5g</td>
</tr>
<tr>
<td>- Of which sugars</td>
<td>&lt;0.25g</td>
</tr>
<tr>
<td>Protein</td>
<td>&lt;0.1g</td>
</tr>
<tr>
<td>Salt</td>
<td>Trace</td>
</tr>
</tbody>
</table>
PRODUCTION FLOW CHART

Unloading raw material -> QC Dept. Test, if qualified entering warehouse

Qualified raw material -> Production Dept. get raw material from warehouse according to production plan

Extract solution -> Extract the raw material according to SOP of extract process and test, If qualified entering filtrate and centrifuging procedure

Filtrate solution -> QC Dept. Test, If qualified, entering concentrate procedure

Concentration solution -> CCP: Concentrate solution should be NMT 55 °C • Test, if qualified, entering drying procedure

Dried material -> Test the moisture content of the dried material. If the content meets requirements, entering Smashing and sieving procedure

Smash and sieve -> CCP: Test mesh size 4 qualified, entering mixture procedure

Mix -> CCP: Mix NLT 2 Hours and test active content, if qualified, entering packing procedure

Package -> Test all items according to customer requirements, if qualified, entering finished product lighthouse

Finished product -> Ship to customer

Product Code: P19241
Version: 4
CONFIRMATION OF BSE/TSE STATUS
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.

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.

CONFIRMATION OF GM STATUS
This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

CONFIRMATION OF NON IRRADIATION STATUS
This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives 1999/3/EC.

CONFIRMATION OF NANDROLONE STATUS
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.

CONFIRMATION OF IOC PRODUCT STATUS
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.

CONFIRMATION OF ANIMAL TESTING STATUS
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 regulation 86/609/EEC.

CONFIRMATION OF PESTICIDES STATUS
This is to certify that the above-mentioned product complies with the regulation (EC) No.396/2005 of 23rd February 2005 and commission Regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.

CONFIRMATION OF NANOPARTICLE STATUS
This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation 2011/696/EU, 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".
Stevia Extract Steviosides
Cambridge Commodities

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Stevia Extract Steviosides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Not Available</td>
</tr>
<tr>
<td>Other means of identification</td>
<td>P19241</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Relevant identified uses</th>
<th>Use according to manufacturer's directions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Registered company name</th>
<th>Cambridge Commodities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Lancaster Way Business Park, Ely, Cambridgeshire CB6 3NX United Kingdom</td>
</tr>
<tr>
<td>Telephone</td>
<td>+44 1353 667258</td>
</tr>
<tr>
<td>Fax</td>
<td>Not Available</td>
</tr>
<tr>
<td>Website</td>
<td>Not Available</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:Msdss@c-c-l.com">Msdss@c-c-l.com</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Association / Organisation</th>
<th>Not Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency telephone numbers</td>
<td>Not Available</td>
</tr>
<tr>
<td>Other emergency telephone numbers</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification according to regulation (EC) No 1272/2008 CLP</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>

2.2. Label elements

<table>
<thead>
<tr>
<th>Hazard pictogram(s)</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SIGNAL WORD</th>
<th>NOT APPLICABLE</th>
</tr>
</thead>
</table>

Hazard statement(s)
Not Applicable

Supplementary statement(s)
Not Applicable
Precautionary statement(s) Prevention
Not Applicable

Precautionary statement(s) Response
Not Applicable

Precautionary statement(s) Storage
Not Applicable

Precautionary statement(s) Disposal
Not Applicable

2.3. Other hazards
REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances
See 'Composition on ingredients' in Section 3.2

3.2. Mixtures

<table>
<thead>
<tr>
<th>1. CAS No</th>
<th>2. EC No</th>
<th>3. Index No</th>
<th>4. REACH No</th>
<th>[%] [weight]</th>
<th>Name</th>
<th>Classification according to regulation (EC) No 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>100</td>
<td>Stevia Extract Steviosides</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Legend:

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

<table>
<thead>
<tr>
<th>Eye Contact</th>
<th>Skin Contact</th>
<th>Inhalation</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generally not applicable.</td>
<td>Generally not applicable.</td>
<td>Generally not applicable.</td>
<td>Generally not applicable.</td>
</tr>
</tbody>
</table>

4.2 Most important symptoms and effects, both acute and delayed
See Section 11

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

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media
- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. |

5.3. Advice for firefighters

<table>
<thead>
<tr>
<th>Fire Fighting</th>
<th>Fire/Explosion Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slight hazard when exposed to heat, flame and oxidisers.</td>
<td>Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.</td>
</tr>
</tbody>
</table>

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
See section 8

6.2. Environmental precautions
See section 12

6.3. Methods and material for containment and cleaning up
### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### SECTION 7 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

- **Limit all unnecessary personal contact.**
- **Wear protective clothing when risk of exposure occurs.**
- **Use in a well-ventilated area.**
- **Avoid contact with incompatible materials.**
- **When handling, **DO NOT** eat, drink or smoke.**
- **Keep containers securely sealed when not in use.**
- **Avoid physical damage to containers.**
- **Always wash hands with soap and water after handling.**
- **Work clothes should be laundered separately.**
- **Use good occupational work practice.**
- **Observe manufacturer’s storage and handling recommendations contained within this SDS.**
- **Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.**

<table>
<thead>
<tr>
<th>Fire and explosion protection</th>
<th>See section 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other information</td>
<td>Store away from incompatible materials.</td>
</tr>
</tbody>
</table>

#### 7.2. Conditions for safe storage, including any incompatibilities

**Suitable container**

- Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards.
- If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.

**Storage incompatibility**

- Avoid contamination of water, foodstuffs, feed or seed.
- None known

#### 7.3. Specific end use(s)

See section 1.2

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

- **DERIVED NO EFFECT LEVEL (DNEL)**
  - Not Available
- **PREDICTED NO EFFECT LEVEL (PNEC)**
  - Not Available
- **OCCUPATIONAL EXPOSURE LIMITS (OEL)**

##### INGREDIENT DATA

<table>
<thead>
<tr>
<th>Source</th>
<th>Ingredient</th>
<th>Material name</th>
<th>TWA</th>
<th>STEL</th>
<th>Peak</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

##### EMERGENCY LIMITS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Material name</th>
<th>TEEL-1</th>
<th>TEEL-2</th>
<th>TEEL-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stevia Extract Steviosides</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Original IDLH</th>
<th>Revised IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Powder</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

- **8.2.1. Appropriate engineering controls**
  - Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.
  - Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.
### 8.2.2. Personal protection

- **Eye and face protection**
  - Safety glasses with side shields.
  - Chemical goggles.
  - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lenses should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
  - Safety glasses with side shields.
  - Chemical goggles.
  - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lenses should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

- **Respiratory protection**
  - Respiratory protection not normally required due to the physical form of the product.

### 8.2.3. Environmental exposure controls

See section 12

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Physical state</strong></td>
<td>article</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>pH (as supplied)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Melting point / freezing point (°C)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range (°C)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Flash point (°C)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Upper Explosive Limit (%)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Lower Explosive Limit (%)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Vapour pressure (kPa)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Solubility in water (g/L)</strong></td>
<td>Immiscible</td>
</tr>
<tr>
<td><strong>Vapour density (Air = 1)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Relative density (Water = 1)</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Partition coefficient n-octanol / water</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature (°C)</strong></td>
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<td><strong>Decomposition temperature</strong></td>
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<tr>
<td><strong>Viscosity (cSt)</strong></td>
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<tr>
<td><strong>Molecular weight (g/mol)</strong></td>
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<tr>
<td><strong>Taste</strong></td>
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</tr>
<tr>
<td><strong>Explosive properties</strong></td>
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<td><strong>Oxidising properties</strong></td>
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</tr>
<tr>
<td><strong>Surface Tension (dyn/cm or mN/m)</strong></td>
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<tr>
<td><strong>Volatile Component (%vol)</strong></td>
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<tr>
<td><strong>Gas group</strong></td>
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<td><strong>pH as a solution (%)</strong></td>
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<tr>
<td><strong>VOC g/L</strong></td>
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#### 9.2. Other information

Not Available
SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

See section 7.2

10.2 Chemical stability

Product is considered stable and hazardous polymerisation will not occur.

See section 7.2

10.3 Possibility of hazardous reactions

See section 7.2

10.4 Conditions to avoid

See section 7.2

10.5 Incompatible materials

See section 7.2

10.6 Hazardous decomposition products

See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhaled

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion

The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.

Skin Contact

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Eye

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Chronic

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Stevia Extract Steviosides

<table>
<thead>
<tr>
<th>TOXICITY</th>
<th>IRRITATION</th>
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Natural Powder

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</thead>
<tbody>
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Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of Chemical Substances

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Stevia Extract Steviosides

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<thead>
<tr>
<th>ENDPOINT</th>
<th>TEST DURATION (HR)</th>
<th>SPECIES</th>
<th>VALUE</th>
<th>SOURCE</th>
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Natural Powder

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<th>SPECIES</th>
<th>VALUE</th>
<th>SOURCE</th>
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<tbody>
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<td>Not Available</td>
<td>Not Available</td>
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</tbody>
</table>

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

12.2 Persistence and degradability

Ingredient Persistence: Water/Soil

Persistence: Air

No Data available for all ingredients

12.3 Bioaccumulative potential

Continued...
### Ingredient Bioaccumulation

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<th>Bioaccumulation</th>
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### 12.4. Mobility in soil

<table>
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<th>Mobility</th>
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<tbody>
<tr>
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### 12.5. Results of PBT and vPvB assessment

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### 12.6. Other adverse effects

No data available

### SECTION 13 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

- **Product / Packaging disposal**
  - Recycle wherever possible or consult manufacturer for recycling options.
  - Consult State Land Waste Management Authority for disposal.
- **Waste treatment options** Not Available
- **Sewage disposal options** Not Available

### SECTION 14 TRANSPORT INFORMATION

#### Labels Required

- **Marine Pollutant** NO
- **HAZCHEM** Not Applicable

#### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- **14.1. UN number** Not Applicable
- **14.2. UN proper shipping name** Not Applicable
- **14.3. Transport hazard class(es)**
  - Class Not Applicable
  - Subrisk Not Applicable
- **14.4. Packing group** Not Applicable
- **14.5. Environmental hazard** Not Applicable
- **14.6. Special precautions for user**
  - Hazard identification (Kemler) Not Applicable
  - Classification code Not Applicable
  - Hazard Label Not Applicable
  - Special provisions Not Applicable
  - Limited quantity Not Applicable

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- **14.1. UN number** Not Applicable
- **14.2. UN proper shipping name** Not Applicable
- **14.3. Transport hazard class(es)**
  - ICAO/IATA Class Not Applicable
  - ICAO / IATA Subrisk Not Applicable
  - ERG Code Not Applicable
- **14.4. Packing group** Not Applicable
- **14.5. Environmental hazard** Not Applicable
- **14.6. Special precautions for user**
  - Special provisions Not Applicable
  - Cargo Only Packing Instructions Not Applicable
  - Cargo Only Maximum Qty / Pack Not Applicable
  - Passenger and Cargo Packing Instructions Not Applicable
  - Passenger and Cargo Maximum Qty / Pack Not Applicable
Passenger and Cargo Limited Quantity Packing Instructions: Not Applicable
Passenger and Cargo Limited Maximum Qty / Pack: Not Applicable

Sea transport (IMDG-Code / GGGSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number
Not Applicable

14.2. UN proper shipping name
Not Applicable

14.3. Transport hazard class(es)
IMDG Class: Not Applicable
IMDG Subrisk: Not Applicable

14.4. Packing group
Not Applicable

14.5. Environmental hazard
Not Applicable

14.6. Special precautions for user
- EMS Number: Not Applicable
- Special provisions: Not Applicable
- Limited Quantities: Not Applicable

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number
Not Applicable

14.2. UN proper shipping name
Not Applicable

14.3. Transport hazard class(es)
Not Applicable

14.4. Packing group
Not Applicable

14.5. Environmental hazard
Not Applicable

14.6. Special precautions for user
- Classification code: Not Applicable
- Special provisions: Not Applicable
- Limited quantity: Not Applicable
- Equipment required: Not Applicable
- Fire cones number: Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code
Not Applicable

SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

NATURAL POWDER (NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS
Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

15.2. Chemical safety assessment
For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Not Applicable

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<tr>
<th>National Inventory</th>
<th>Status</th>
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<tr>
<td>Australia - AICS</td>
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<tr>
<td>Canada - DSL</td>
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</tr>
<tr>
<td>Canada - NDSL</td>
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</tr>
<tr>
<td>China - IECSC</td>
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<tr>
<td>Europe - EINEC / ELINCS / NLP</td>
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<tr>
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<td>New Zealand - NZIoC</td>
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<td>Philippines - PICCS</td>
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<tr>
<td>USA - TSCA</td>
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</tbody>
</table>

Legend:
Y = All ingredients are on the inventory
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)
SECTION 16 OTHER INFORMATION

Revision Date 03/05/2018
Initial Date 03/05/2018

Full text Risk and Hazard codes

Other information
Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:
- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

Definitions and abbreviations
- PC – TWA: Permissible Concentration-Time Weighted Average
- PC – STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOD: Limit Of Detection
- LOEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index

Powered by AuthorITe, from Chemwatch.
This 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**

<table>
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<th>Version</th>
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<td>1</td>
<td>First Issue</td>
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</tr>
<tr>
<td>2</td>
<td>Added statement confirming this product has food grade packaging, CAS number for rebaudioside a, ethanol as a solvent used, nutritional information, that maize/corn and any derivatives are on site at manufacturer and confirmation of nanoparticle status. Removed methanol residue as this is no longer used. Changed pharmacopeia standard used from FCC to CP2010. Updated production flowchart and sections 2 and 3 of the MSDS.</td>
<td></td>
<td>Yes</td>
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<td>3</td>
<td>Yeast and Moulds, E. coli and Salmonella limits were added. The % through a 60 mesh is now NLT 95% and the range on the bulk density has been increased. The average molecular weight was also changed, due to a clerical error.</td>
<td></td>
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<td>4</td>
<td>The Pharmacopeia, Flow chart and MSDS were updated. The E.coli and Salmonella limits were also amended.</td>
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**Document Approval**

<table>
<thead>
<tr>
<th>Originator Job Title</th>
<th>Quality Specialist</th>
<th>Approver Job Title</th>
<th>Quality Specialist</th>
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<tbody>
<tr>
<td>Matthew Vincent</td>
<td></td>
<td></td>
<td>Lucia Valle (May 4, 2018)</td>
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Product Code: P19241 Version: 4

*success starts with the finest ingredients...*

"P19241-Stevia Extract Steviosides RA 97-Technical Dossier"

History

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