Technical Data Sheet

Legal Declaration
- Legal name: Malted barley (Malt)
- Country of Origin: United Kingdom
- Weight: 0.55 tonnes/cu. Metre
- Product use: Foodstuff, used primarily as an ingredient in the brewing, distilling, baking and cereal industries.

Manufacturer
- Company name: Simpsons Malt Limited
- Address: Tweed Valley Maltings, Tweedside Trading Estate, Berwick upon Tweed, Northumberland, TD15 2UZ
- Telephone no.: 01289 330033
- Email: malt@simpsonsmalt.co.uk
- Emergency contact details: Group Operations Director
- Emergency contact mobile no.: 07764 896397

Product Description
- Malted barley (Malt)

Ingredient List
- Malted barley (Malt)

Physical and Chemical Parameters
The product is analysed according to a predefined inspection plan

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### Appearance

**Description**
- Colour: Pale brown or black, depending up on type
- Texture: Solid grain
- Odour: Slight, characteristic
- Angle of repose: 26° from the horizontal
- Volatility: Not volatile
- Solubility: Not soluble in water (slowly decomposes by microbial action)
- Combustion temperature: Approx. 220°C (for whole grain)

### Nutritional Information (average per 100 g/product)


<table>
<thead>
<tr>
<th>Nutritional Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy in Kcal</td>
<td>Kcal N/A</td>
</tr>
<tr>
<td>Energy in kJ</td>
<td>kJ N/A</td>
</tr>
<tr>
<td>Total proteins</td>
<td>g 9 to 13</td>
</tr>
<tr>
<td>Total fat</td>
<td>g 3</td>
</tr>
<tr>
<td>Of which saturated</td>
<td>g N/A</td>
</tr>
<tr>
<td>Total carbohydrates</td>
<td>g 75 to 80</td>
</tr>
<tr>
<td>Of which sugars</td>
<td>g 58 to 62</td>
</tr>
<tr>
<td>Total fibres</td>
<td>g N/A</td>
</tr>
<tr>
<td>Salt (Na x 2.5)</td>
<td>g N/A</td>
</tr>
</tbody>
</table>

### Dietary Information

**Specification**
- Vegetarians: Suitable
- Coeliac: Not Suitable
- Kosher: Certified
- Halal: Not Certified
- Free from alcohol: Yes
- Organic: No

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Allergen Information


<table>
<thead>
<tr>
<th>Allergen</th>
<th>As Ingredient</th>
<th>Possible CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cereals containing gluten and products thereof</td>
<td>+</td>
<td>-</td>
</tr>
<tr>
<td>Crustaceans and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Eggs and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fish and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soya beans and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Milk and products thereof (including lactose)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nuts and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Celery and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Mustard and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sesame and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sulphur dioxide and sulphites (&gt; 10 ppm)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Lupin and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Molluscs and products thereof</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Absence = -  Presence = +

Barley is a gluten-containing cereal and is unsuitable for coeliacs. Allergen labelling may be required on packaged foods made with barley and malted barley products in some countries.

Food Contaminants

Raw materials are guaranteed food grade in conformity with the applicable legislation on:-

⇒ Mycotoxins (EC regulation 1881/2006)
⇒ Heavy metals (EC regulation 1881/2006)
⇒ Pesticide residues (EC regulation 296/2005)

GMO Information

The product is of Identity Preserved origin or does not contain ingredients which are concerned by EC regulation 1829/2003 and is as such out of scope of this regulation. The product does not require additional specific labelling as set up in EC regulation 1820/2003.
Irradiation Information
The product has not been treated with ionising radiation and does not contain irradiated ingredients, no specific labelling is required as set up in EC directive 1999/2.

Hazards Information
Not classified as hazardous under Directives 67/548/EEC and 1999/45/EC

Eyes
Malt flour and dust has a drying effect and can be an irritant in prolonged contact

Skin
Malt dust and/or husk can cause discomfort

Ingestion
Non-hazardous food product

Inhalation
Inhalation of dust may affect respiratory tract; exposure limits for personnel may be set under national legislation. Allergic responses are possible with sensitive individuals

First Aid Measures
General exposure
Not hazardous

Inhalation of dust
Remove from exposure. Consult with physician if coughing or other symptoms persist

Eyes or skin
Wash with clean water

Fire Hazards
Special hazards
Malt dust is inflammable and under some circumstances can form explosive clouds in the air. Sources of ignition should be avoided. Equipment should be earthed to avoid electrostatic discharges. Silos and equipment should be fitted with explosion relief vents.

Minimum ignition temp. 400°C
<table>
<thead>
<tr>
<th><strong>Title:</strong> Technical data sheet – malted barley</th>
<th><strong>Version number:</strong> 0</th>
<th><strong>Publication Date:</strong> 02/02/2018</th>
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<tbody>
<tr>
<td><strong>Document Code:</strong> N/A</td>
<td><strong>Document Review Period:</strong> 1 Year</td>
<td><strong>Page:</strong> 5 of 6</td>
</tr>
</tbody>
</table>

- **Minimum exploisible conc.** 50g/m³
- **Minimum ignition energy** 35mJ
- Can give rise to hazardous fumes (oxides of carbon) on combustion
  - If fire is severe wear self-contained breathing apparatus
  
**Accidental Release**
- **Personal protection**
- **Environmental precautions**
  - Not required
  - Avoid the material entering water courses or drains

**Handling & Storage Conditions**
- **Advised Storage Conditions**
  - Stores should be suitable for foodstuffs, cool, dry and protected from contamination with birds, insects and vermin
  - 12 months from date of packaging
  - Care should be taken during handling and use to avoid abrasion which might cause dust or disperse dust into the air

**Exposure Controls**
- Not normally required

**Stability & Reactivity**
- **Stability**
- **Incompatibility**
- **Hazardous combustion**
  - Stable under normal circumstances
  - None known
  - Combustion will generate oxides of carbon

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### Toxicological Information
Non-toxic food product. For allergens see information above.

### Ecological Information
Biodegradable. Nutrient source.

### Disposal
Can be disposed of to landfill

### Transport
Not classified as hazardous under relevant Directives

### Labelling
Not applicable

### Packaging Information
In bulk wagons or food grade bags

### Quality Information
ISO 9001:2015, TASCC, AUKM, KOSHER, FEMAS, UFAS

The information in this Technical Data Sheet is correct to the best of Simpsons Malt Limited knowledge.

### Contacts & Signature
Name  
Signature

<table>
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