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| <b>Title :</b> Safety Data Sheet for Malted Barley | <b>Revision :</b> 3.1          | <b>Issue Date:</b> 24.06.14 |
| <b>Ref. No. :</b> N/A                              | <b>Review Freq. :</b> Annually | <b>Page</b> 1 of 4          |

## 1. Identification of substance and of the manufacturer.

|                            |   |
|----------------------------|---|
| Product name:              | Malted barley (Malt)  |
| Product use:               | Foodstuff; used primarily as an ingredient in the brewing, distilling, baking and cereal industries.              |
| Company name:              | Simpsons Malt Limited   |
| Address:                   | Tweed Valley Maltings<br>Tweedside Trading Estate<br>Ord Road<br>Berwick-upon-Tweed<br>Northumberland<br>TD15 2UZ |
| Telephone:                 | 01289 330033  |
| Emergency contact details: | Group Operations Director - Mobile No. 07764 896397   |

## 2. Information on main ingredients

Malt is a whole grain cereal food product. It does not contain any artificial additives, flavourings, sweeteners or flavour enhancers.  
Malt is not genetically modified.

Gross composition (typical):

|                  |          |
|------------------|----------|
| Carbohydrates    | 75 – 80% |
| Of which Starch  | 58 – 62% |
| Protein          | 9 – 13%  |
| Fat              | 3%       |
| Minor components | 1 – 2%   |
| Ash              | 3%       |
| Water            | 3 – 7%   |
| Dust             | < 1%     |

|  |   |
|--|---|
| <b>Owner :</b> P.A. Kantor   | <b>Location :</b> All Sites   |
| <b>Reviewers :</b> P.A. Kantor   | <b>SIMPSONS MALT LIMITED (including McCreath, Simpson &amp; Prentice and John Guthrie, trading divisions)</b> |
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### 3. Hazards information

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

**Eyes and skin**

**Skin:** Malt flour and dust has a drying effect and can be an irritant in prolonged contact.

**Eyes:** Malt dust and/or husk can cause discomfort.

**Ingestion  
Inhalation**

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

### 4. First aid measures

**General exposure  
Inhalation of dust**

Not hazardous  
Remove from exposure. Consult physician if coughing or other symptoms persist.

**Eyes or skin**

Wash with clean water

### 5. 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  
Minimum explosible conc. 50g/m<sup>3</sup>  
Minimum ignition energy, 35 mJ.

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Can give rise to hazardous fumes (oxides of carbon) on combustion.

**Protective equipment**

If fire is severe wear self contained breathing apparatus.

**6. Accidental release**

**Personal protection**

Not required

**Environmental precautions**

Avoid the material entering water courses or drains.

**7. Handling and storage**

Stores should be suitable for foodstuffs, cool, dry and protected from contamination with birds, insects and vermin.

Care should be taken during handling and use to avoid abrasion which might cause dust or disperse dust into the air.

**8. Exposure controls**

Not normally required.

**9. Physical and chemical properties**

**Physical state:**

Solid

**Colour:**

Pale brown or black, depending upon type

**Odour:**

Slight, characteristic

**Density:**

0.55 tonnes/cu. Metre

**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)

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- 10. Stability and reactivity**
- Stability:** Stable under normal conditions
- Incompatibility:** None known
- Hazardous combustion:** Combustion will generate oxides of carbon
- 11. Toxicological information**
- Allergen information:** Non-toxic food product  
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.
- 12. Ecological information** Biodegradable. Nutrient source.
- 13. Disposal** Can be disposed of to landfill.
- 14. Transport** Not classified as hazardous under relevant Directives.
- 15. Labelling** Not applicable
- 16. Shelf Life** 12 months from date of packing
- 17. Other** The information in this Safety Data Sheet is correct to the best of Simpsons Malt knowledge.

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