

## Starterzucker 02005

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Brandname** Starterzucker 02005  
**Product name** Dextrose Monohydrate  
**REACH status** Exempt  
**Formula** C6H12O6  
**Revision date** 09-10-2014

**Intended use:**

Sweetener

**Company identification**

Cargill Deutschland GmbH  
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Emergency telephone +49 (0) 2151 575 01

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification**

Not classified

**Classification according to Regulation (EC) No 1272/2008 as amended****Hazard summary****Physical hazards**

Not classified for physical hazards.

**Health hazards**

Not classified for health hazards.

**Environmental hazards**

Not classified for hazards to the environment.

**Specific hazards**

Fine particles may form explosive mixtures with air.

**Starterzucker 02005****Main symptoms**

Prolonged or repeated contact may dry skin and cause irritation.

**Precautionary statements****Prevention**

Not assigned.

**Response**

Not assigned.

**Storage**

Not assigned.

**Disposal**

Not assigned.

**Supplemental label information**

None.

**Other hazards**

Not assigned.

**Label elements**

Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard statement**

The substance does not meet the criteria for classification.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	EC#
D-Glucose Monohydrate	77938-63-7	200-075-1

**4. FIRST AID MEASURES****Description of first aid measures****Inhalation**

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

**Skin contact**

Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

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### Eye contact

Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

### Ingestion

Seek medical advice.

### Most important symptoms and effects, both acute and delayed

Dust may irritate the eyes and the respiratory system.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIREFIGHTING MEASURES

### General fire hazards

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### Extinguishing media

#### Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

None known.

### Special hazards arising from the substance or mixture

Dust may form explosive mixture with air. This product is a dust explosion class St-1 at normal moisture level.  
Minimum Ignition Energy (MIE): >1000 mJ at normal moisture level.  
P<sub>max</sub>: 8.0 bar.  
K<sub>st</sub>: 100 bar m/s.

### Advice for firefighters

#### Special protective equipment for firefighters

Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

#### Special firefighting procedures

None known.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Wear appropriate personal protective equipment.

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### For emergency responders

Keep unnecessary personnel away.

### Environmental precautions

Prevent runoff from entering drains, sewers, or streams.

### Methods and material for containment and cleaning up

Sweep up spilled substance and remove to safe place. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Nonsparking tools should be used.

### Reference to other sections

For personal protection, see section 8 of the MSDS. For waste disposal, see Section 13 of the MSDS.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid handling which leads to dust formation. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Keep container closed. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Occupational exposure limits

No exposure limits noted for the ingredient(s).

### Recommended monitoring procedures

Not established.

### DNEL

Not available.

### PNEC

Not available.

### Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

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**General information**

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Chemical resistant gloves are recommended.

**Other**

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

**Thermal hazards**

Not applicable.

**Hygiene measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

Environmental manager must be informed of all major releases.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Appearance	White crystalline powder.
Odour	Not available.
Odour threshold	Not available.
pH	5 Typical.
Melting Point/ freezing point	Not available.
Boiling point, initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Auto-ignition temperature	Not available.
Flammability (solid, gas)	Not available.
Flammability limit lower	Not applicable.
Flammability limit upper	Not applicable.

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Oxidising properties	Not applicable.
Explosive properties	MIE: >1000 mJ at normal moisture level. Pmax: 8.0 bar. Kst: 100 bar m/s
Explosive limit	Lower explosive limit: 125 g/m <sup>3</sup>
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	Not available.
Solubility in water	510 g/l (at 25°C)
Partition coefficient (Log K octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Percent volatile	Not available.

**Other information**

No relevant additional information available.

**10. STABILITY AND REACTIVITY****Reactivity**

None known.

**Chemical stability**

Stable under the prescribed storage conditions.

**Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Incompatible materials. Minimize dust generation and accumulation.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous combustion products**

No hazardous decomposition products are known.

**11. TOXICOLOGICAL INFORMATION****General information**

Under normal conditions of intended use, this material does not pose a risk to health.

**Information on likely routes of exposure****Ingestion**

No harmful effects expected in amounts likely to be ingested by accident.

**Inhalation**

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

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### **Skin contact**

Not assigned.

### **Eye contact**

Direct contact with eyes may cause temporary irritation.

### **Symptoms**

Dust may irritate the eyes and the respiratory system.

### **Information on toxicological effects**

#### **Acute toxicity**

Dust may irritate the eyes and the respiratory system.

#### **Skin corrosion/irritation**

Not assigned.

#### **Serious eye damage/eye irritation**

Direct contact with eyes may cause temporary irritation.

#### **Respiratory sensitization**

Not assigned.

#### **Skin sensitization**

Not assigned.

#### **Germ cell mutagenicity**

Not assigned.

#### **Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### **Reproductive toxicity**

Not assigned.

#### **Specific target organ toxicity - single exposure**

Not assigned.

#### **Specific target organ toxicity - repeated exposure**

Not assigned.

#### **Aspiration hazard**

Not assigned.

#### **Mixture versus substance information**

Not assigned.

#### **Other information**

Not assigned.

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**12. ECOLOGICAL INFORMATION****Toxicity**

No toxicity data noted for the ingredient(s).

**Persistence and degradability**

No data available.

**Bioaccumulative potential**

No data available.

**Mobility**

Not available.

**Environmental fate - Partition coefficient**

Not available.

**Mobility in soil**

Not available.

**Results of PBT and vPvB assessment**

Not available.

**Other adverse effects**

None known.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Residual waste**

Dispose of in accordance with local regulations.

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**EU waste code**

Waste codes should be assigned by the user based on the application for which the product was used.

**14. TRANSPORT INFORMATION****Transport hazard class(es)**

ADR	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

## 15. REGULATORY INFORMATION

### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

### Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## 16. OTHER INFORMATION

### List of abbreviations

Not available.

### REFERENCES

Not available.

### Full text of any statements or R- and H-phrases under section 2 to 15

None

### Revision information

Date of first issue	04-04-2012
Supersedes date	09-10-2014

### Information on revision

### Reason for changes

Classification according to Regulation (EC) No 1272/2008 as amended

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