

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Brandname C*Dex™ 02001
Product name Dextrose Monohydrate
Formula C6H12O6•H2O
REACH status Exempt

Chemical name	CAS No	EC#
D-Glucose Monohydrate	77938-63-7	207-757-8

Revision date 21-03-2016

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

Sweetener

1.3. Details of the supplier of the safety data sheet**Company identification**

Cargill Deutschland GmbH
Cerestarstrasse 2
D-47809 Krefeld-Linn
Germany

Fax number +49 (0) 2151 575 650
E-mail address info_de@cargill.com

BÜFA Chemikalien GmbH & Co.KG
An der Autobahn 14
DE 27798 Hude / Altmoorhausen
Telefon-Nr. +49 4484 9456 852
Fax-Nr. +49 4484 9456 863
E-Mail-Adresse produktsicherheit-c@buefa.de

1.4 Emergency telephone number

Emergency telephone +49 (0) 2151 575 01 (24/7)

SECTION 2: Hazards identification**2.1 Classification of the substance/mixture**

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

Hazard summary

Low hazard for recommended handling by trained personnel.

2.2. Label elements

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

Hazard statement

Not assigned.

Precautionary statements**Prevention**



Not assigned.

Response

Not assigned.

Storage

Not assigned.

Disposal

Not assigned.

Supplemental label information

None.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical name	CAS No	EC#
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SECTION 4: First aid measures

General information

Not available.

4.1 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.

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.

4.2. Most important symptoms and effects, both acute and delayed

Dust may irritate the eyes and the respiratory system.

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

Treat symptomatically.

SECTION 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.

5.1 Extinguishing media**Suitable extinguishing media**

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

None known.

5.2 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_{max}: 8.0 bar.
K_{st}: 100 bar m/s.

5.3 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 firefightings procedures

None known.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedure****For non-emergency personnel**

Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away.

6.2 Environmental precautions

Prevent runoff from entering drains, sewers, or streams.

6.3 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.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limits noted for the ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Not established.

DNEL

Not available.

PNEC

Not available.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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.

SECTION 9: Physical and chemical properties

9.1 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.



Safety data sheet according to eu regulation 1907/2006

C*Dex™ 02001

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 ³
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.

SECTION 10: Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under the prescribed storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Incompatible materials. Minimize dust generation and accumulation.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 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.

Skin contact

Not assigned.

Eye contact

Direct contact with eyes may cause temporary irritation.

Symptoms

Dust may irritate the eyes and the respiratory system.

11.1 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.

SECTION 12: Ecological information

12.1 Toxicity

No toxicity data noted for the ingredient(s).

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

Mobility

Not available.

Environmental fate - Partition coefficient

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 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.

SECTION 14: Transport information

14.3 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.

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

No information available.

SECTION 15: Regulatory information

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

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.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

Commission Regulation (EU) No. 2015/830 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 16: Other information

List of abbreviations

Not available.

REFERENCES

Not available.

Full text of any H-statements not written out in full under Sections 2 to 15

None

Revision information

Date of first issue	04-04-2012
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Safety data sheet according to eu regulation 1907/2006

C*Dex™ 02001

Information on revision

Reason for changes

align with REACH regulation

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