

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: Dextrose Monohydrate 02001

Chemical Name: D-Glucose, hydrate

Relevant identified uses of the substance or mixture: Food. Pharmaceuticals. Industrial. Animal Feed.

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2. HAZARDS IDENTIFICATION

Classification:

The product has not been classified as dangerous according to the legislation in force: CLP Regulation (EC) No 1272/2008.

Label elements: Not applicable.

Other hazards: Dust may form an explosive mixture in the atmosphere.
Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.
Not fulfilling vPvB (very persistent/very bioaccumulative) criteria.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Substance.
Components: Dextrose.
EINECS/ELINCS NUMBER: 200-075-1
CAS number: 77938-63-7, 14431-43-7, 50-99-7
Concentration (Volume): See product specification sheet for detailed.
Information Classification (Directive): Not classified as dangerous.
Classification (CLP): Not classified as dangerous.

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4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures:

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Skin contact: Wash skin with soap and water.

Eye contact: Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Ingestion: Product not hazardous when ingested.

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. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: Dry chemicals or foams.

Special hazards arising from the substance or mixture: Fire or excessive heat may produce hazardous decomposition products. Dust may form an explosive mixture in the atmosphere. See Section 10.

Advice for firefighters:

Special firefighting procedures: Prevent dust cloud.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment.

Environmental precautions: Not regarded as dangerous for the environment.

Methods and material for containment and cleaning up: Remove material, as much as possible, using mechanical equipment. Prevent dust cloud. Collect and dispose of spillage as indicated in section 13 of the SDS.

Reference to other sections: For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Handling: See Section 8 of the SDS for Personal Protective Equipment.

Storage: Avoid contact with oxidising agents. Store in a dry place. Store at room temperature.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:	In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P1). (EN 143).
Eye protection:	Wear dust-resistant safety goggles where there is danger of eye contact. (EN 166).
Hand protection:	No specific precautions.
Skin protection:	Coveralls should be worn to minimize the possible skin contact surface.
Hygiene measures:	Handle the product in accordance with the good hygiene practices and safety instructions.
General:	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical State:	Solid
Form:	Powder
Colour:	White
Odour:	Odourless
Odour Threshold:	No data available
pH:	4.7 at 50 %
Melting Point:	~83 °C
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Classified
Vapor pressure:	Not Applicable
Vapor density (air=1):	Not Applicable
Relative density:	~0.63
Solubility in Water:	~1.000 g/l at 20 °C
Partition coefficient (n-octanol/water):	-3,24 - Literature Reference
Decomposition Temperature:	No data available.
Explosive properties:	- INERIS - Data from similar product.
Ignition Temperature:	~420°C (Godbert-Greenwald) MIT in Cloud. ~320°C product in deposit.
MIE (Minimum Ignition Energy):	>1.200 mJ (EN 13821 (Without Inductance)) Very low sensitivity to ignition by an electrostatic phenomenon.
dP/dtmax (Maximum Rate of explosion Pressure rise):	~270 bar/s (EN 14034-2)
Pmax (Maximum Explosion Over Pressure) ±10%:	~2.7 bar (EN 14034-1)
Kst value (±20%):	~73 barm/s (EN 14034-2)
Dust Explosion Class:	st 1 (VDI 3673)
Volume resistivity:	>10 ⁹ Ω.m (IEC 61241-2-2 / Group IIIB non-conductive dust.)
Moisture:	~ 8.5 % (ISO 589)
Mv (Median value):	~ 143 µm (NFX 11-666)
Other Data:	BZ (Combustion class) : 2 (VDI
2263-1) LEL (Lower Explosion limit):	30-60 g/m3
Oxidising properties:	Not Classified

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Other information

Conductivity: ~ 1.8 µS/cm (at 50%)

10. STABILITY AND REACTIVITY

Reactivity: Strong oxidising agents.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No hazardous reactions under ordinary conditions of use and storage.

Conditions to avoid: Prevent dust cloud. Dust clouds may be explosive under certain conditions. Avoid dust close to ignition sources.

Incompatible materials: Strong oxidising substances.

Hazardous decomposition products: Carbon Monoxide. Carbon Dioxide.

11. TOXICOLOGICAL INFORMATION

LD50/LC50: Not available.

Carcinogenicity: Not classifiable as Carcinogen.

Epidemiology, Teratogenicity: No information available.

Reproductive effects: No information available.

Neurotoxicity: No information available.

Other studies: None.

12. ECOLOGICAL INFORMATION

No environmental hazard nor adverse effect known of this product. Readily biodegradable.

COD (mg O₂/g ds): +/-1100

BOD (mg O₂/g ds): +/-700

WKG class (Germany): Not dangerous when coming in contact with water.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of waste in an appropriate authorised treatment facility in accordance with regulations in force and product characteristics at time of disposal.

Packaging material: Single use packaging. Collect for salvage or disposal.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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16. OTHER INFORMATION

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.