

## SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: D(+)-GLUCOSE

Artikel-Nr.: 30237

Revision date: 18.12.2014

1. Identification of the substance/preparation and of the company/undertaking

### 1.1 Product identifiers

Product number:

30237

Product name:

D(+)-GLUCOSE

REACH No. :

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses : synthesis of organic products, in food industry, nutrient media for bacterial culture, for pharmaceuticals synthesizing.

### 1.3 Details of the supplier of the safety data sheet

MLV GmGH	Telephone:	+49 (0) 3947 65600
Mitteldeutscher Lehrmittelvertrieb	Telefax:	+49 (0) 3947 65601
Stecklenberger Winkel 88	e-Mail:	info@mlvgmbh.de
D-06502 Thale	Website	www.mlvgmbh.de

### 1.4 Emergency telephone number

Gemeinsamen Giftinformationszentrum (GGIZ)	Telephone:	+49 (0) 361-730730
Nordhäuser Straße 74	Telefax:	
D-99089 Erfurt	e-Mail:	
	Website:	www.ggiz-erfurt.de/

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards - none

## 3. Composition/information on ingredients

Synonyms: Dextrose  
CAS: 5996-10-1  
Molecular weight: 198.17  
EC number: 200-075-1  
Formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>•H<sub>2</sub>O

No components need to be disclosed according to the applicable regulations.

## 4. First aid measures

After inhalation: Fresh air.

After skin contact: wash off with water.

After ingestion: (large amounts): consult doctor if feeling unwell.

After eye contact: rinse out with water.

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### 5. Fire-fighting measures

Suitable extinguishing media: Water, CO<sub>2</sub>, foam, powder.

Special risks: combustible

D(+)-Glucose monohydrate, extra pure, Ph Eur, USP, BP

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### 6. Accidental release measures

Person-related precautionary measures: Avoid inhalation of dusts.

Procedures for cleaning / absorption: Take up dry. Forward for disposal. Clean up.

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### 7. Handling and storage

Handling: No further requirements.

Storage: Store tightly closed and dry. Store at + 15°C to + 25°C.

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### 8. Exposure controls/personal protection

Exposure limit values: (MAK, Germany):

Exposure controls:

Occupational exposure controls: The personal protective equipment must be selected according to the working place, based on the concentration and amount of the dangerous substance. The supplier should indicate the stability of the personal protective equipment to chemical reagents.

Respiratory protection: required when dusts are generated.

Hand protection: we suggest to use it.

Eye protection: required

Industrial hygiene: Wash hands after working with substance.

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### 9. Physical and chemical properties

Form:	solid Colour:
	colourless
Odour:	odourless
Important health, safety and environmental information:	
pH value: (100 g/l H <sub>2</sub> O, 20 °C)	6 - 7
Boiling temperature:	--- Flash
point:	---
Explosion limits (low):	---
Explosion limits (high):	---
Vapour pressure:	---
Density (20 °C):	---
Solubility in water: (20 °C):	1000 g/l
Solubility in:	
ethanol (20 °C):	sparingly soluble
Partition coefficient n-octanol/water:	log P(o/w): -3,29 (anhydrous substance)
Refractive index:	---
Melting temperature:	~ 83 °C
Ignition temperature:	~ 500 °C

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### 10. Stability and reactivity

Conditions to be avoided: Strong heating.

Substances to be avoided: salts of oxyhalogenic acids, nitrates, permanganates, strong oxidizing agents.

Hazardous decomposition products: No information available.

Further information: dust explosion possible; releases water of crystallization when heated. D(+)-Glucose monohydrate, extra pure, Ph Eur, USP, BP

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### 11. Toxicological information

Acute toxicity:

LD50(oral, rat): 25800 mg/kg (anhydrous substance) Further toxicological information:

The literature and our own experience have not revealed any hazardous properties.

Further information:

Naturally occurring substance. Substance which occurs in the human body under physiological conditions. The product should be handled with the care usual when dealing with chemicals.

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### 12. Ecological information

Ecotoxic effects:

Fish toxicity: fish IC<sub>0</sub> : 60000 mg/l (anhydrous substance). Mobility: log P(o/w): -3,29 (anhydrous substance).

Bioaccumulative potential: Low probability of bioaccumulation (log P(o/w) < 1).

Persistence and degradability: Biological degradability: 48% /5d (closed flask test). Biological degradability: good

Further ecologic data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

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### 13. Disposal considerations

Product: There are no uniform EU Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EU member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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### 14. Transport information

Not subject to transport regulations.

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### 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Water pollution class no polluting substance VwVwS Anh. 2

Storage class VCI 10-13

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### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out  
Germany

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## 16. Other information

### Further information

The information supplied in this data sheet, is based on the present state of our knowledge. The purpose of this information is only to describe the security measures to follow in the handling of the product. Therefore it does not represent a guarantee about the properties of the product.

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