



## MATERIAL SAFETY DATA SHEET

### DEXTROSE MONOHYDRATE

Revision Number : 00

Revision Date: 00

Issuing Date: 16.05.2014

#### Section 1 - Chemical Product and Company Identification

##### Product identification

**Product name** : **DEXTROSE MONOHYDRATE**  
**Synonyms** : D-glucose, monohydrate; dextrosol; dextrose, monohydrate, powder  
**Chemical Formula** :  $C_6H_{12}O_6 \cdot H_2O$   
**CAS No** : 5996-10-1

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**Manufacturer** : Zhucheng Dongxiao Biotechnology Co.Ltd

#### Section 2 - Composition, Information on Ingredients

Ingredient	CAS#	Percent	Hazardous
Dextrose Monohydrate	5996 – 10 - 1	90 - 100 %	No

#### Section 3 - Hazards Identification

##### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Health Rating:** 0 - None  
**Flammability Rating:** 1 - Slight  
**Reactivity Rating:** 1 - Slight  
**Contact Rating:** 0 - None  
**Lab Protective Equip:** GOGGLES; LAB COAT  
**Storage Color Code:** Orange (General Storage)

##### Potential Health Effects

**Inhalation:** Not expected to be a health hazard.  
**Ingestion:** Extremely large oral dosages may produce gastrointestinal disturbances.  
**Skin Contact:** No adverse effects expected.  
**Eye Contact:** No adverse effects expected but dust may cause mechanical irritation.  
**Chronic Exposure:** No information found.



**Aggravation of Pre-existing Conditions:** No information found.

#### Section 4 - First Aid Measures

**Inhalation:** Not expected to require first aid measures.  
**Ingestion:** Not expected to require first aid measures.  
**Skin Contact:** Not expected to require first aid measures.  
**Eye Contact:** Wash thoroughly with running water. Get medical advice if irritation develops.

#### Section 5 - Firefighting Measures

**Fire:** Not considered to be a fire hazard.  
**Explosion:** Not considered to be an explosion hazard.  
**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.  
**Special Special Information:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

#### Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

#### Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

#### Section 8 - Exposure Controls, Personal Protection

**Airborne Exposure Limits:** None established.

**Ventilation System:**

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

**Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.



Section 9 - Physical and Chemical Properties

<b>Appearance:</b>	Colorless crystals or white crystalline powder.
<b>Odor:</b>	Odorless.
<b>Solubility:</b>	ca. 1 g/1.1 ml water @ 25C (77F).
<b>Specific Gravity:</b>	1.54
<b>pH:</b>	5.9 For 0.5 M aqueous solution
<b>% Volatiles by volume @ 21C (70F):</b>	0
<b>Boiling Point:</b>	No information found.
<b>Melting Point:</b>	83C (181F)
<b>Vapor Density (Air=1):</b>	No information found.
<b>Vapor Pressure (mm Hg):</b>	No information found.
<b>Evaporation Rate (BuAc=1):</b>	No information found.

Section 10 - Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage. < 50C the Hydrated crystalline form is stable.  
**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** Reacts with sodium nitrite plus potassium nitrite, sodium peroxide plus potassium nitrate.  
**Conditions to Avoid:** Heat, incompatibles.

Section 11 - Toxicological Information

Investigated as a tumorigen, mutagen, reproductive effector. For Dextrose (monohydrate):  
 Oral rat LD50: 25800 mg/kg .

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
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Dextrose Monohydrate (5996-10-1)	No	No	None

Section 12 - Ecological Information

**Environmental Fate:** No information found.  
**Environmental Toxicity:** No information found.

Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



Section 14 - Transport Information

Not regulated

Section 15 - Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Dextrose Monohydrate (5996-10-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Dextrose Monohydrate (5996-10-1)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	ARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.
Dextrose Monohydrate (5996-10-1)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	-RCRA- CERCLA	-TSCA 261.33	8(d)
Dextrose Monohydrate (5996-10-1)	No	No	No

Chemical Weapons Convention: No  
 SARA 311/312: Acute: No  
 Reactivity: No (Pure / Solid)

TSCA 12(b): No  
 Chronic: No

CDTA: No  
 Fire: No  
 Pressure: No

**Australian Hazchem Code:** None allocated.

**Poison Schedule :** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section 16 - Additional Information

**.NFPA Ratings:** Health: 0 Flammability: 0 Reactivity: 0

**Label Hazard Warning:**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:** None.

**Label First Aid:** Not applicable.

**Product Use:** Laboratory Reagent.

**Revision Information:** MSDS Section(s) changed since last revision of document include: 1, 8.



**PT. PANCASAKTI PUTRA KENCANA**  
IMPORTIR AND STOCKIST OF INDUSTRIAL AND FOOD CHEMICALS



References: Not available.

Other Special Considerations: Not available

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