

# SAFETY DATA SHEET (SDS)

## Glucose

Issue date: 22-04-2024

### Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Glucose powder
Product Codes:	MC34.2
Other means of identification:	
Chemical formula, alternative names:	D-GLUCOSE Monohydrate D-GLUCOSE Anhydrous AR D-GLUCOSE Anhydrous LR Grape sugar, Dextrose, Glucose, Corn sugar, Dextrosol
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	168 Fulham Road Alphington Victoria 3078 Australia
Suppliers Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561

### Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Not classified as hazardous
Label elements	
Hazard Pictograms:	
Signal Word:	None
Hazard Statements:	Not applicable
Precautionary Statements:	If medical advice is needed, have product container or label at hand Keep out of reach of children Dispose of the contents/containers in accordance with the current legislation on waste treatment
Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable VPvB: Not applicable

### Section 3: Composition/information on ingredients

Ingredients		
Name	CAS	Proportion
D-Glucose	50-99-7	100%

### Section 4: First Aid Measures

General Information	
After Inhalation:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; Call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get Medical advice/ attention.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing:	In case of ingestion of large quantities, seek medical attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Treat symptomatically.
Indications of any immediate medical attention and special treatment needed	No further relevant information available.

### Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Small fire: Use dry chemical, CO <sub>2</sub> , water spray or foam. Large fire: Use water spray, fog or foam.
Special hazards arising for the substance or mixture:	Fire may produce irritating, poisonous and/or corrosive gases. In sufficient quantity and reduced particle size is capable of creating a dust explosion.
Advice for firefighters	
Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment.

### Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Not required
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

## Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight.
Specific end use(s):	No further relevant information available.

## Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	
Ingredients with limit values that require monitoring at the workplace: none	
Exposure Controls:	
General protective and hygienic measures:	Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes.
Respiratory protection:	In case of significant exposure use respiratory filter device. Not normally required.
Clothing / Foot-wear and equipment	No special requirements.
Protection of hands:	PVC or rubber gloves
Eye protection:	Tightly sealed goggles
Skin protection:	Laboratory Coat

## Section 9: Physical and chemical properties

<b>Appearance:</b>	
Form:	Solid
Colour:	White
Odour:	Odourless
Odour Threshold:	Not determined
pH value:	Not determined
<b>Change in Condition:</b>	
Melting point/Melting range:	146°C
Boiling point/Boiling range:	Not determined
Flash point:	Not determined
Flammability (solid / gaseous)	Combustible
<b>Ignition Temperature</b>	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not determined
<b>Explosion limits</b>	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density:	Not determined
<b>General Info</b>	
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Very soluble (470 g/L water @20°C)
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	Not determined
Other information:	Sweet taste. Exhibits mutarotation from $[\alpha]_{20}^D=+112.2^\circ$ to $[\alpha]_{20}^D=+52.7^\circ$ at $c=4$ in water. Has the D (right-handed) configuration and is dextrorotatory.

## Section 10: Stability and reactivity

Reactivity	
General	Stable under normal use conditions
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	Reacts with sodium nitrite plus potassium nitrite, sodium peroxide plus potassium nitrate.
Conditions to avoid:	Exposure to moisture. Exposure to air. Heat, flames, ignition sources and incompatibles. Dust generation. Incompatibles.
Incompatible materials:	Strong oxidisers
Hazardous decomposition products:	Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO <sub>2</sub> ), carbon monoxide and other organic compounds.

## Section 11: Toxicological information

Information on toxicological effects	
General	No relevant information available
Primary irritant effect:	
Inhalation:	Inhalation of dust may cause irritation to the respiratory tract.
Ingestion:	Extremely large doses may cause gastro-intestinal upset.
Skin:	No adverse effects expected
Eye:	Contact may cause transient irritation.
Chronic Toxicity:	
Carcinogenicity	Not classified as a human carcinogen
Mutagenicity	Not considered to be a mutagenic hazard

## Section 12. Ecological information

<b>Toxicity</b>	
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	Readily biodegradable
<b>Behaviour in environmental systems</b>	
Bio-accumulative potential:	No bioaccumulation is expected
Mobility in soil:	No further relevant information available.
<b>Additional ecological information</b>	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

## Section 13. Disposal Considerations

<b>Waste treatment methods</b>	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
<b>Uncleaned packaging:</b>	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

## Section 14. Transport information

<b>General</b>	Not listed as a hazardous material.
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## Section 15. Regulatory Information

<b>Safety health and environmental regulations/legislation specific for the substance or mixture</b>	
Australian Inventory of Chemical Substances:	Substances are listed.
Standard for the Uniform Scheduling of Medicines and Poisons	S6
GHS label elements	None
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

## Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.