



chem-supply

Safety Data Sheet

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Infosafe No™	1CH46	Issue Date : February 2019	RE-ISSUED by CHEMSUPP
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Product Name : **MALTOSE Monohydrate**

Not classified as hazardous

1. Identification

GHS Product Identifier MALTOSE Monohydrate

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001

Emergency phone number CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

Recommended use of the chemical and restrictions on use Nutrient, sweetener, sugar supplement for diabetics, culture media, prepared bee food, stabilizer for polysulfides, brewing, pharmaceutical dispensing and laboratory reagent.

Other Names

Name	Product Code
Malt sugar	
D(+)-Maltose	
MALTOSE Monohydrate LR	ML005
Maltobiose	
4-O-alpha-D-Glucopyranosyl-D-glucose	
D(+)-Maltose Monohydrate	

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Maltose monohydrate	6363-53-7	95-100 %		

4. First-aid measures

Inhalation Remove victim to fresh air. Seek medical advice if effects persist.

Ingestion Rinse mouth thoroughly with water immediately. Do not induce vomiting. Seek medical advice if effects persist.

Skin Wash with plenty of soap and water. Seek medical advice if effects persist.

Eye contact Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products May emit toxic fumes in fire including oxides of carbon.



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Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

6. Accidental release measures

Personal Precautions	Avoid dust formation and avoid breathing dust. Avoid inhalation, contact with skin, eyes and clothing.
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Personal Protection

Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
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7. Handling and storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Use in well ventilated areas away from all ignition sources.
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Wear suitable protective clothing.

Conditions for safe storage, including any incompatibilities	Store in a cool, dry place. Keep container tightly closed and in a well-ventilated place.
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8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable.
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Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.
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Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
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Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
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Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
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Recommendation: Rubber or plastic gloves

Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
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Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
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Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
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9. Physical and chemical properties

Form	Solid
Appearance	Colourless crystals or white powder.

Odour	Odourless.
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Melting Point	110-130 °C
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Solubility in Water	Soluble (85 g/100ml water @ 25°C).
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Solubility in Organic Solvents	Slightly soluble in alcohol. Insoluble in ether.
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Specific Gravity	0.34 – 0.45 (bulk)
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pH	Neutral (5% solution, 20 °C); pH 4.0-5.5 (30% solution); pH 3.7-4.7 (100% solution, 20°C).
Flammability	Non combustible material.
Molecular Weight	360.32
Other Information	About one-third as sweet as sucrose.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of storage and use.
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	Oxides of carbon.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	Oral LD50 (rat): 34.8 g/kg (anhydrous).
Ingestion	Large doses may cause gastro-intestinal upset.
Inhalation	Inhalation of dust may cause irritation to the respiratory tract.
Skin	May cause skin irritation.
Eye	Contact may cause transient irritation.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Claims have been made that this material has a neoplastic effect, i.e. causes the formation of neoplasm(s) or non-metastasizing abnormal or new growth(s). As maltose is produced by the action of enzymes on starch foodstuffs, this source of contact is the major one in man. Contact with this material in a laboratory will have an insignificant effect compared with this natural process contact. Cases of chronic poisoning from prolonged use (up to 200 g/day) have been recorded. However, it would be virtually impossible to take such large quantities accidentally.
Mutagenicity	No evidence of mutagenic effects.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Readily biodegradable.
Other Information	Maltose is naturally found in animals and plants.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road
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**Contact
Person/Point**

and Rail 7th. Ed.', 2007.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Chemical Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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**Empirical Formula &
Structural Formula**

C12H22O11.H2O

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