



5 Page: 1 of

Infosafe No™ 1CH3J Issue Date : September 2022 RE-ISSUED by CHEMSUPP

Product Name LACTOSE Monohydrate

Not classified as hazardous

#### **Section 1 - Identification**

LACTOSE Monohydrate **Product Identifier** 

CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211) **Company Name** 

38 - 50 Bedford Street GILLMAN Address

SA 5013 Australia Tel: (08) 8440-2000

Telephone/Fax

E-mail Address

Number

**Emergency Phone** 

Number

www.chemsupply.com.au

Recommended use of the chemical and restrictions on use

Pharmacy, infant foods, bacteriology, baking and confectionery, margarine and butter manufacture, manufacuturing of penicillin, yeast, edible protein and riboflavin, culture media, adsorbant in chromatography and laboratory reagent.

Other Names Name Product Code

> LACTOSE Edible White FG LP031

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

Sugar of milk

LACTOSE Monohydrate LR LL031

Lactobiose Milk sugar D(+)-Lactose

LACTOSE Monohydrate AR LA031

#### Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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.

#### Section 2 - Hazard(s) 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).

### **Section 3 - Composition and Information on Ingredients**

Ingredients	Name	CAS	Proportion
	Lactose monohydrate	64044-51-5	100 %

#### **Section 4 - First Aid Measures**

If inhaled, remove from contaminated area to fresh air immediately. If Inhalation

breathing is difficult, give oxygen. Get medical aid if cough or other

symptoms appear.

Rinse mouth with water. Seek medical attention if symptoms occur, or if large Ingestion

amounts ingested.

Wash affected area thoroughly with copious amounts of running water. Remove Skin

contaminated clothing and wash before reuse or discard. If symptoms develop

seek medical attention.

Immediately irrigate with copious quantity of water for at least 15 minutes. Eye

Eyelids to be held open. Seek medical advice if effects persist.

Eye wash and normal washroom facilities. First Aid Facilities





5 Page: 2 of

Infosafe No™ 1CH3J Issue Date :September 2022 RE-ISSUED by CHEMSUPP

Product Name LACTOSE Monohydrate

Not classified as hazardous

Treat symptomatically based on judgement of doctor and individual reactions of Advice to Doctor

the patient.

For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; Other Information

New Zealand 0800 764 766) or a doctor.

**Section 5 - Firefighting Measures** 

Hazards from Combustion

Irritating and highly toxic fumes and gases, including carbon monoxide and

carbon dioxide (CO, CO2).

**Products** 

Small fire: Use dry chemical, CO2, water spray or foam. **Specific Methods** 

Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool

containers with flooding quantities of water until well after the fire is out.

**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 fumes. As with most organic

solids, the substance is slightly flammable to flammable at elevated

temperatures or by contact with an ignition source.

Decomposition

Becomes anhydrous at 120  $^{\circ}\text{C.}$ 

Decomposes at 203.5 °C; > 219 °C. **Temperature** 

**Section 6 - Accidental Release Measures** 

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. **Personal Precautions** 

Ensure supply of fresh air in enclosed rooms.

Use personal protective equipment listed in Section 8. Personal Protection

Clean-up Methods -**Small Spillages** 

Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance

with local regulations.

Section 7 - Handling and Storage

**Precautions for Safe** Handling

Avoid ingestion and inhalation of dust. Avoid contact with eyes, skin, and

clothing.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. Store away from strong odours. Keep away from

foodstuffs, beverages and feed.

**Section 8 - Exposure Controls and Personal Protection** 

Other Exposure Information

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of  $10 \text{ mg/m}^3$  for dusts when limits have not otherwise been

established.

**Engineering** Controls

In industrial situations maintain the concentrations values below the TWA.

This may be achieved by process modification, use of local exhaust

Respiratory **Protection** 

ventilation, capturing substances at the source, or other methods.

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. 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.

Eye and Face **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.

**Hand Protection** 

Hand protection should comply with AS 2161, Occupational protective gloves -

Selection, use and maintenance.

**Personal Protective Equipment** 

Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

Clean clothing or protective clothing should be worn. Clothing for protection **Body Protection** 





5 Page: 3 of

Infosafe No™ 1CH3J Issue Date :September 2022 RE-ISSUED by CHEMSUPP

Product Name LACTOSE Monohydrate

Not classified as hazardous

against chemicals should comply with AS 3765 Clothing for Protection Against

Hazardous Chemicals.

Always wash hands before smoking, eating or using the toilet. Wash **Hygiene Measures** 

contaminated clothing and other protective equipment before storing or

re-using.

Section 9 - Physical and Chemical Properties

Solid **Form** 

Colourless, white, off-white, or cream crystalline powder. **Appearance** 

Odourless. Odour

203.5°C (decomposition); 219 °C (decomposition). **Melting Point** 

Decomposes. **Boiling Point** 

Becomes anhydrous at 120 °C. **Decomposition** Decomposes at 203.5 °C; > 219 °C. **Temperature** Solubility in Water Very soluble (161 g/l (20  $^{\circ}$ C)).

**Solubility in Organic** 

Solvents

Insoluble in ether and chloroform. Very slightly soluble in alcohol.

1.525 **Specific Gravity** 

4.0-6.5 (100 g/l, H2O, 20 °C). pН

Negligible. Vapour Pressure Negligible. **Evaporation Rate** 0 %vol @ 21 °C **Volatile Component** 

**Partition Coefficient:** log Pow: -5.03 (anhydrous substance) (calculated).

n-octanol/water (log

value)

Flammability

Combustible. 390 °C; 470 °C. **Auto-ignition** 

**Temperature** 

**Explosion Properties** Fine dust dispersed in air in sufficient concentrations, and in the presence

of an ignition source is a potential dust explosion hazard. Lower explosive

limit: 0.125 g/l in air.

360.32 Molecular Weight

15 - 300 microns. Particle Size

Taste: slightly sweet taste. **Other Information** Bulk density: 500 kg/m³.

**Section 10 - Stability and Reactivity** 

Stable under normal temperatures, pressures and ordinary conditions of use and **Chemical Stability** 

storage. Readily absorbs odours.

Possibility of

Reactive with oxidizing agents.

carbon dioxide (CO, CO2).

**Hazardous Reactions** 

Avoid contact with moisture. Keep away from heat and sources of ignition. **Conditions to Avoid** 

**Incompatible** 

Oxidizing agents.

Will not occur.

Materials

Irritating and highly toxic fumes and gases, including carbon monoxide and Hazardous

**Decomposition** 

**Products** 

Hazardous **Polymerization** 

### Section 11 - Toxicological Information





5 Page: 4 of

Infosafe No™ 1CH3J Issue Date :September 2022 RE-ISSUED by CHEMSUPP

Product Name LACTOSE Monohydrate

Not classified as hazardous

Ingestion of large amounts may cause gastrointestinal irritation, causing Ingestion

nausea and vomiting. The toxicological properties of this substance have not

been fully investigated.

Inhalation of high concentrations of dusts may irritate the respiratory Inhalation

system. The toxicological properties of this substance have not been fully

investigated.

Skin contact may cause mechanical irritation or skin irritation to some Skin

super-sensitive persons, resulting in redness and itching. The toxicological

properties of this material have not been fully investigated.

Not expected to be a health hazard. May cause mechanical or slight eye Eye

irritation. The toxicological properties of this material have not been fully

investigated.

Not listed in the IARC Monographs. Carcinogenicity

**Chronic Effects** Prolonged inhalation of dust can cause asthmatic symptoms. Repeated or

prolonged exposure to the substance can produce lung damage. Repeated exposure

of the eyes to a low level of dust can produce eye irritation.

**Section 12 - Ecological Information** 

No ecological problems are to be expected when the product is handled and used **Ecological** 

with due care and attention. Information

Quantitative data on the ecological effect of this product are not available. **Ecotoxicity** 

Products of Biodegradation: Possibly hazardous short term degradation products Persistence and are not likely. However, long term degradation products may arise. **Degradability** 

Products of degradation: These products are carbon oxides (CO, CO2) and water.

Toxicity of the products of biodegradation: The product itself and its

products of degradation are not toxic.

**Mobility** Distribution: log Pow: -5.03 (anhydrous substance) (calculated).

Bioaccumulative

**Potential** 

No bioaccumulation is to be expected (log Pow <1).

**Environmental Protection** 

Prevent this material entering waterways, drains and sewers.

**Section 13 - Disposal Considerations** 

Dispose of according to relevant local, state and federal government Disposal

regulations. Considerations

**Section 14 - Transport Information** 

Not classified as a Dangerous Good according to the Australian Code for the **Transport** 

Transport of Dangerous Goods by Road and Rail. Information

**Section 15 - Regulatory Information** 

Listed in the Australian Inventory of Chemical Substances (AICS). Regulatory

Information

Not Scheduled Poisons Schedule

Section 16 - Any Other Relevant Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.

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

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

Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.





Page: 5 of 5

Infosafe No™ 1CH3J Issue Date : September 2022 RE-ISSUED by CHEMSUPP

Product Name LACTOSE Monohydrate

Not classified as hazardous

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical

**Empirical Formula** & Structural Formula

representatives. C12H22O11 · H2O

...End Of MSDS...

© Copyright Chemical Safety International Pty Ltd Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.