



1. IDENTIFICATION

Product Name Dextrose, monohydrate **Other Names** D(+)-Glucose, monohydrate

No Data Available Uses **Chemical Family** No Data Available **Chemical Formula** C6H12O6.H2O

.alpha.-D-Glucopyranose, monohydrate **Chemical Name Product Description** Alternate CAS Number: 14431-43-7

Contact Details of the Supplier of this Safety Data Sheet

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Australia

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40400 Shah Alam Sengalor, Malaysia

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location **Telephone** Poisons Information Centre Westmead NSW 1800-251525 131126 1800-127406 Chemcall Australia +64-4-9179888

2. HAZARD IDENTIFICATION

Not Scheduled Poisons Schedule (Aust)

Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and

Labelling of Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

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Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Dextrose, monohydrate	C6H1206.H20	5996-10-1	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention. Never

give anything by mouth to an unconscious person.

Eye Eye contact: Rinse cautiously with water for several minutes, holding eyelids open and occasionally lifting the upper

and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin Skin contact: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin

irritation occurs, get medical advice/attention.

Inhaled If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms

persist, get medical advice/attention.

Advice to Doctor

Medical Conditions Aggravated

Treat symptomatically.

No information available.

by Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is

out

Flammability Conditions Combustible solid; May burn but does not ignite readily.

Extinguishing Media

Use dry chemical, Carbon dioxide, water spray or foam for extinction.

Fire and Explosion Hazard

Dust explosion hazard - May form combustible dust clouds in air.

Hazardous Products of

Combustion

Fire may produce irritating and/or toxic fumes, including oxides of Carbon.

Special Fire Fighting

Instructions

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (fire kit).

Flash Point 202.2 °C

Lower Explosion LimitNo Data AvailableUpper Explosion LimitNo Data AvailableAuto Ignition TemperatureNo Data AvailableHazchem CodeNo Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or

walk through spilled material. Avoid breathing dust and contact with eyes, skin and clothing.



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Clean Up Procedures Sweep or vacuum up material and place it into suitable containers for disposal (see SECTION 13); If appropriate,

moisten first to prevent dusting.

Containment Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Decontamination Wash area down with excess water. **Environmental Precautionary** Prevent entry into drains and waterways.

Measures

Evacuation Criteria

Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary

Measures

Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). Avoid handling which leads to dust formation - May form combustible dust clouds in air. Take precautionary measures

against static discharges.

Storage Store in a cool, dry, well ventilated place. Keep container tightly closed when not in use - Check regularly for spills.

Keep out of direct sunlight. Keep away from heat and sources of ignition. Keep away from incompatible materials

(strong oxidising agents).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).
- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3 (total); TWA = 3 mg/m3 (respirable).
- OSHA PEL (Particulates not otherwise regulated): TWA = 15 mg/m3 (total); TWA = 5 mg/m3 (respirable).

Exposure LimitsNo Data Available **Biological Limits**No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local

exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Ensure ventilation is adequate to maintain air concentrations

below Workplace Exposure Standards.

Personal Protection Equipment Respiratory protection: If determined by a risk assessment an inhalation risk exists, wear a dust mask meeting the

requirements of AS/NZS 1715 and AS/NZS 1716.

Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.

Hand protection: Handle with gloves. Recommended: Impervious gloves.

Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls,

safety shoes.

Special Hazards Precaustions No information available.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing

and wash before storage or reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystals, granules, powder

Odour Odourless

ColourColourless to whitepHNo Data Available



Vapour Pressure No Data Available **Relative Vapour Density** No Data Available

Boiling Point 410.8 °C (@ 760 mmHg)

Melting Point 110 °C

Freezing Point No Data Available Solubility Soluble in water **Specific Gravity** No Data Available

Flash Point 202.2 °C

Auto Ignition Temp No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available **Density** No Data Available **Specific Heat** No Data Available Molecular Weight No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available Particle Size No Data Available **Partition Coefficient** No Data Available Saturated Vapour Concentration No Data Available **Vapour Temperature** No Data Available Viscosity No Data Available Volatile Percent No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion Dust explosion hazard - May form flammable dust clouds in air.

Fast or Intensely Burning

Characteristics

No information available. No information available.

Flame Propagation or Burning

Rate of Solid Materials

Non-Flammables That Could No information available.

Contribute Unusual Hazards to a

Properties That May Initiate or Contribute to Fire Intensity

Combustible solid; May burn but does not ignite readily.

Reactions That Release Gases

or Vapours

Fire may produce irritating and/or toxic fumes, including oxides of Carbon.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information No information available. **Chemical Stability** Stable under normal conditions.

Conditions to Avoid Avoid dust generation. Keep away from heat and sources of ignition.

Materials to Avoid Incompatible with strong oxidising agents.

Hazardous Decomposition

Products

Fire may produce irritating and/or toxic fumes, including oxides of Carbon.

Hazardous Polymerisation Will not occur.



11. TOXICOLOGICAL INFORMATION

General Information Information on possible routes of exposure:

- Eye contact: Dust may cause (mechanical) irritation due to particulate nature.

- Skin contact: May cause (mechanical) irritation.

- Ingestion: No adverse health effects are expected; however, large amounts may cause nausea and vomiting.

- Inhalation: Dust may cause respiratory irritation.

Chronic effects: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 25,800 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available. Persistence/Degradability No information available. **Mobility** No information available.

Environmental Fate Prevent entry into drains and waterways.

Bioaccumulation Potential No information available. **Environmental Impact** No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name DEXTROSE MONOHYDRATE

Class No Data Available Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available No Data Available Hazchem **Pack Group** No Data Available **Special Provision** No Data Available

Sea Transport **IMDG** Code

Proper Shipping Name

DEXTROSE MONOHYDRATE



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Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available
EMS No Data Available

Marine Pollutant No

Air Transport

IATA DGR

Proper Shipping Name DEXTROSE MONOHYDRATE

ClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationNOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous

Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General InformationNo Data AvailablePoisons Schedule (Aust)Not Scheduled

National/Regional Inventories

Australia (AICS) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined



Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Related Product Codes DEXTRO0200, DEXTRO0201, DEXTRO0202, DEXTRO0204, DEXTRO0205, DEXTRO0215, DEXTRO0900,

DEXTRO0901, DEXTRO1000, DEXTRO1001, DEXTRO1002, DEXTRO1003, DEXTRO1004, DEXTRO1005, DEXTRO1006, DEXTRO1007, DEXTRO1008, DEXTRO1009, DEXTRO1010, DEXTRO1011, DEXTRO1012, DEXTRO1013, DEXTRO1014, DEXTRO1015, DEXTRO1016, DEXTRO1017, DEXTRO1018, DEXTRO1019, DEXTRO1020, DEXTRO1021, DEXTRO1022, DEXTRO1023, DEXTRO1024, DEXTRO1025, DEXTRO1026, DEXTRO1027, DEXTRO1028, DEXTRO1029, DEXTRO1030, DEXTRO1031, DEXTRO1032, DEXTRO1033, DEXTRO1034, DEXTRO1035, DEXTRO1036, DEXTRO1037, DEXTRO1038, DEXTRO1039, DEXTRO1030, DEXTRO1034, DEXTRO1035, DEXTRO1036, DEXTRO1037, DEXTRO1038, DEXTRO1039, DEXTRO1040, DEXTRO1041, DEXTRO1042, DEXTRO1043, DEXTRO1040, DEXTRO1500, DEXTRO1500, DEXTRO5000, DEXTRO5001, DEXTRO5001, DEXTRO2001, DEXTRO2001, DEXTRO5000, DEXTRO5000, DEXTRO5001, DEXTRO5002, DEXTRO5000, DEXTRO5000, DEXTRO5000, DEXTRO5001, DEXTRO5001, DEXTRO5001, DEXTRO5001, DEXTRO5002, DEXTRO5000, DEXTRO7501, DEXTRO7500, DEXTRO7500, DEXTRO7501, DEXTROS000, DEXTRO8201, DEXTRO8202, DEXTRO8204, DEXTRO8205, DEXTRO8200, DEXTRO8200, DEXTRO8201, DEXTRO8200, DEXTRO8201, DEXTRO8200, DEXTRO8201, DEXTRO8200, DEXTRO8201, DEXTRO8202, DEXTRO8204, DEXTRO8205, DEXTRO8200, DEXTRO8300, DEXTRO9300, DEXTRO9300, DEXTRO9300, DEXTRO9301, DEXTRO9300, DEXTRO9301, DEXTRO9302, DEXTRO9301, DEXTRO9302, DEXTRO9302, DEXTRO9301, DEXTRO9302, DEXTRO9302, DEXTRO9302, DEXTRO9302, DEXTRO9302, DEXTRO9303, DEXTRO

Revision

Revision Date

19 Dec 2017

Key/Legend

Less Than
Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

a/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury **inH2O** Inch of Water

K Kelvin **kg** Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. **LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (see half) of a page of test point and provided the concentration.

(one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water mPa.s Millipascals per Second



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N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average ug/24H Micrograms per 24 Hours UN United Nations

wt Weight

