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SAFETY DATA SHEET

100



Product Code: CSGA018-500G

PAGE 1 OF 4

SECTION 1

PRODUCT IDENTIFICATION

GHS Product

D-GLUCOSE

Identifier Not classified as hazardous

Recommended use of the chemical and restrictions on use Other Names

Confectionery, infant foods, medicine, brewing and wine-making, intermediate, caramel colouring, baking and canning, source of methane by anaerobic fermentation, source of certain amino acids by fermentation and laboratory reagent.

00111200

Grape sugar, Dextrose, Glucose, Corn sugar, Dextrosol.

Other Information

Livingstone International 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 Livingstone International 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 Livingstone International 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 IDENTIFICATION

GHS classification

of the

Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances

[NOHSC:1008(2004] 3rd Edition, Safe Work Australia.

substance/mixture Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Solid

Ingredients Nam

Name CAS Proportion Hazard Symbol Risk Phrase

D-Glucose monohydrate 5996-10-1 100 % D-Glucose 50-99-7 100 %

(SECTION 4)

FIRST AID MEASURES

Inhalation Remove victim to fresh air.

Ingestion Give plenty of water to drink. If a large object has been swallowed, seek medical assistance.

Skin Remove contaminated clothing and wash affected skin with soap and water.

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.

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PAGE 2 OF 4

FIRE FIGHTING MEASURES

Hazards from Combustion **Products**

This material is combustible and may cause danger in dust explosion. May release oxides of carbon.

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

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

Specific Methods

May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases. In sufficient quantity and reduced particle

size is capable of creating a dust explosion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal **Precautions** Avoid inhalation, contact with skin, eyes and clothing.

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.

(SECTION 7) HANDLING AND STORAGE

Handling

Precautions for Safe Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material.

Use with adequate ventilation.

Conditions for safe storage, including

Store away from oxidizing agents. Store in a cool,dry place. Keep containers closed at all times. Keep

in a well-ventilated place

any incompatabilities

(SECTION 8) **EXPOSURE CONTROLS/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 mg/m3 for dusts or

mists when limits have not otherwise been established.

Appropriate

In industrial situations maintain the concentrations values below the TWA. This may be achieved by engineering controls process modification, use of local exhaust ventilation, capturing substances at the source, or other

methods.

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.

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Eye Protection

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.

RECOMMENDATION: Excellent: Nitrile, Neoprene, PVC. Poor: NR latex.

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection **Body Protection**

against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

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

protective equipment before storing or re-using.

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SAFETY DATA SHEET

Product Code: CSGA018-500G

PAGE 3 OF 4

(SECTION 9) PHYSICAL/CHEMICAL PROPERTIES

Form Solid

White granular powder or colourless crystals. **Appearance**

Odour Odourless.

Melting Point Anhydrous: 146 °C

Monohydrate: 83 °C

Very soluble (470 g/L @ 20 °C). Solubility in Water

Solubility in Organic Soluble in hot methanol, hot pyridine and alcohol. Slightly soluble in acetone. Insoluble in ether.

Solvents

Specific Gravity Anhydrous: 1.544 g/cm3

Monohydrate: 0.63 g/cm3

Anhydrous: 5.9 (0.5M, H2O @ 20°C) рH

Monohydrate: 6 - 7 (100g/L, H2O @ 20°C)

Combustible. **Flammability Auto-Ignition** ~500 °C

Temperature

Molecular Weight Anhydrous - 180.16

Monohydrate - 198.17

Other Information Sweet taste.

Exhibits mutarotation from [alpha]20°/D=+112.2°

to [alpha]20°/D=+52.7° at c=4 in water.

Has the D (right-handed) configuration and is dextrorotatory.

STABILITY AND REACTIVITY

Chemical Stability Stable under normal use conditons.

Exposure to moisture. High temperatures. Incompatibles. **Conditions to Avoid**

Incompatible

Strong oxidising agents, sodium nitrate.

Materials

Hazardous Oxides of carbon. Decomposition

Products

Possibility of Reacts with sodium nitrite plus potassium nitrite, sodium peroxide plus potassium nitrate.

hazardous reactions

Hazardous Will not occur.

Polymerization

(SECTION 11) TOXICOLOGICAL INFORMATION

Ingestion Extremely large oral doses may cause gastrointestinal disturbances.

Mild irritant. Dust may irritate respiratory system. Inhalation

Skin No adverse effects expected.

Eve Contact may cause transient, mechanical irritation.

Carcinogenicity Not classified as a human carcinogen. Mutagenicity Not considered to be a mutagenic hazard.

(SECTION 12) ECOLOGICAL INFORMATION

No ecological data available for this product. **Ecotoxicity**

Bioaccumulative

Potential

No bioaccumulation is to be expected (log P(o/w) < 1.0).

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PAGE 4 OF 4

	SECTION 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.
SECTION 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.
	SECTION 15 REGULATORY INFORMATION
Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	Not Scheduled
SECTION 16 OTHER INFORMATION	
Literature	'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia,

References

June 2013.

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Inc., NY, 1997.

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Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',

Standards Australia/Standards New Zealand, 2010.

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

Worksafe Australia, 'Hazardous Substances Information System, 2005'.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment [NOHSC:1003(1995)]'.

Empirical Formula & Anhydrous - C6H12O6

Structural Formula Monohydrate - C6H12O6.H2O

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