Bundaberg Sugar Chemwatch Hazard Alert Code: 1 Chemwatch: 4802-52 Issue Date: 23/12/2022 Version No: 6.1 Print Date: 31/05/2023 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements L.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Bundaberg D.C. Raw Sugar
Chemical Name	sucrose
Synonyms	coffee sugar
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Ingredient in food and food preparations.
--------------------------	---

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Bundaberg Sugar
Address	Level 1, 155 Wharf Street Spring Hill QLD 4000 Australia
Telephone	+61 7 3835 8400
Fax	+61 7 3835 8411
Website	Not Available
Email	Not Available

Emergency telephone number Association / Organisation Bundaberg Sugar Emergency telephone numbers 13 11 26 (Poisons Information Centre) Other emergency telephone numbers Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture	
Poisons Schedule	Not Applicable
Classification [1]	Not Applicable

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention Not Applicable Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

CAS No	%[weight]	Name
57-50-1	>99	sucrose
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification Classification drawn from C&L * EU IOELVs available	drawn from Regulation (EU) No 1272/2008 - Annex VI; 4.

SECTION 4 First aid measures

Description of first aid measures	
Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Water spray or fog.
- ▶ Foam.
- Dry chemical powder.
 BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with strong oxidising agents as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	Combustible Avoid creating dust - may present dust explosion hazard. Dry dust can be electrostatically charged by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport. Build-up of electrostatic charge may be prevented by grounding. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2)
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal.
Major Spills	 Remove all ignition sources. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment and dust respirator. Prevent spillage from entering drains, sewers or water courses.

Put residues in labelle	cover product wherever possible. d plastic bags or other containers for disposal. ins or waterways occurs, advise emergency services.
-------------------------	---

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Remove all ignition sources. Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Avoid physical damage to containers. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.
Other information	 Keep dry. Store under cover. Store in a well ventilated area. Store away from sources of heat or ignition. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag.
	NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer.
Storage incompatibility	Avoid storage with oxidisers

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes		
Australia Exposure Standards	sucrose	Sucrose	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbable1% crystalline silica.		0
Emergency Limits								
Ingredient	TEEL-1			TEEL-2				TEEL-3
Bundaberg D.C. Raw Sugar	Not Available)		Not Availa	ble			Not Available
Ingredient	Original IDL	н				Revised IDL	н	
sucrose	Not Available)				Not Available		

MATERIAL DATA

None assigned. Refer to individual constituents.

Exposure controls

ring controls are used to remove a hazard or place a barrier between the y effective in protecting workers and will typically be independent of worker ic types of engineering controls are: controls which involve changing the way a job activity or process is done	ker interactions to provide this high level of protection.
aust ventilation should be designed to prevent accumulation and recircula spite of local exhaust an adverse concentration of the substance in air co ection might consist of: icle dust respirators, if necessary, combined with an absorption cartridge; respirators with absorption cartridge or canister of the right type; n-air hoods or masks d-up of electrostatic charge on the dust particle, may be prevented by bor yder handling equipment such as dust collectors, dryers and mills may rec aminants generated in the workplace possess varying "escape" velocities ng air required to efficiently remove the contaminant.	hysically" away from the worker and ventilation that strategicall te an air contaminant if designed properly. The design of a int in use. exposure. r crystals; even when particulates are relatively large, a certain lation of particulates in the workplace. could occur, respiratory protection should be considered. Such cy conding and grounding.
ai e a p na te ti r h l c w a	are and/or isolation of emission source which keeps a selected hazard "pl and "removes" air in the work environment. Ventilation can remove or dilu on system must match the particular process and chemical or contamina ers may need to use multiple types of controls to prevent employee over al exhaust ventilation is required where solids are handled as powders or portion will be powdered by mutual friction. haust ventilation should be designed to prevent accumulation and recircul a spite of local exhaust an adverse concentration of the substance in air or tection might consist of: ticle dust respirators, if necessary, combined with an absorption cartridge r respirators with absorption cartridge or canister of the right type; h-air hoods or masks ld-up of electrostatic charge on the dust particle, may be prevented by bo wder handling equipment such as dust collectors, dryers and mills may re

Chemwatch: 4802-52 Version No: 6.1

Bundaberg D.C. Raw Sugar

	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 ft/min)			
	grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).	nerated dusts (released at high initial velocity into zone	2.5-10 m/s (500-2000 ft/min)			
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contaminatii 4-10 m/s (800-2000 ft/min) for extraction of crusher dusts ge producing performance deficits within the extraction apparate more when extraction systems are installed or used.	le cases). Therefore the air speed at the extraction point and ng source. The air velocity at the extraction fan, for example nerated 2 metres distant from the extraction point. Other	should be adjusted, ble, should be a minimum mechanical consideration			
Individual protection neasures, such as personal protective equipment						
Eye and face protection	and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens should		eview of lens absorption nel should be trained in igation immediately and - lens should be removed			
Skin protection	See Hand protection below					
Hands/feet protection	No special equipment needed when handling small quantitie OTHERWISE: Wear chemical protective gloves, e.g. PVC.	S.				
Body protection	See Other protection below					
Other protection	No special equipment needed when handling small quantitie OTHERWISE:	S.				

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Unrefined straw coloured crystals; soluble in water.			
Physical state	Divided Solid	Relative density (Water = 1)	1.59	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available	
Melting point / freezing point (°C)	160-186	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	342.34	

Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	0.045 g/l	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product The dust may be discomforting Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
Ingestion	The solid/dust is non-toxic if swallowed. Extremely large oral doses may cause gastro-intestinal disturbance. Considered an unlikely route of entry in commercial/industrial environments
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
Eye	The dust may produce eye discomfort causing transient smarting, blinking
Chronic	Not considered to cause discomfort through normal use. Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

Duradaharan D.C. Davis Surara	TOXICITY	IRRITATION	
Bundaberg D.C. Raw Sugar	Not Available	Not Available	
	TOXICITY	IRRITATION	
sucrose	Oral (Rat) LD50: 29700 mg/kg ^[2]	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

SUCROSE	Oral (Human) TDLo: 9.6E-5 mg/kg		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
wiutagementy	^	· ·	

Legend: X – Data either not available or does not fill the criteria for classification - Data available to make classification

SECTION 12 Ecological information

Toxicity					
Bundaberg D.C. Raw Sugar	Endpoint	Test Duration (hr)	Species	Value	Source

	Not Available	Not Available	Not Available	Not Available	Not Available
sucrose	Endpoint NOEC(ECx)	Test Duration (hr) 48h	Species Fish	Value 342.34mg/L	Source 4
Legend:	Ecotox database		ed Substances - Ecotoxicological Information - Aqua ard Assessment Data 6. NITE (Japan) - Bioconcent		

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sucrose	LOW	LOW

Bioaccumulative pote	ntial	
Ingredient	Bioaccumulation	
sucrose	LOW (LogKOW = -3.7)	
Mobility in soil		
Ingredient	Mobility	
sucrose	LOW (KOC = 10)	

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill. 	

SECTION 14 Transport information

Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sucrose	Not Available
`	

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sucrose	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

sucrose is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sucrose)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes

National Inventory	Status
Japan - ENCS	No (sucrose)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	23/12/2022
Initial Date	30/01/2003

SDS Version Summary

Version	Date of Update	Sections Updated
5.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
6.1	23/12/2022	Classification review due to GHS Revision change.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.