



Material Safety Data Sheet

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Infosafe No™ 8AC2S Issue Date : February 2010 ISSUED by SUGAR

Product Name : **WHITE SUGARS (CRYSTALLINE)**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name WHITE SUGARS (CRYSTALLINE)

Company Name Sugar Australia Pty Limited (ABN 82 081 245 169)

Address 265 Whitehall St Yarraville
VIC 3013 Australia

Telephone/Fax Number Tel: +61 3 9283 4558
Fax: +61 3 9689 4085

(24 hour a day available) Emergency Phone Number: Poisons Information Centre 13 11 26

Recommended Use As a sweetener or ingredient in food processing and food preparation

Other Names

<u>Name</u>	<u>Product Code</u>
SUCROSE	
SUGAR	
REFINED SUGAR	
CASTER SUGAR	
CSR JAM SETTING SUGAR	
CSR SMART	
CSR SLIGHT	

Other Information This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with the Code and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The Supplier will issue a new MSDS when there is a change in ASCC standards, guidelines, or regulations and/or a material change in product specifications.

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Other Information This product is a well known ingredient in food and beverages and this Material Safety Data Sheet is concerned only with occupational exposures.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Sucrose	57-50-1	90-100 %
	Non hazardous additives		0-10 %

4. FIRST AID MEASURES

Inhalation Remove to fresh air.

Ingestion Give water to drink.

Skin Wash thoroughly with soap and water.

Eye Flush thoroughly with copious amounts of running water. If symptoms persist, seek medical attention.

Advice to Doctor Treat symptomatically. People with diabetes may need stabilisation.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water, dry chemical, carbon dioxide and foam.



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Product Name : **WHITE SUGARS (CRYSTALLINE)**

Hazards from Combustion	With heat, product burns/oxidises to form carbon, carbon monoxide and or carbon dioxide, and smoke.
Products	
Specific Hazards	Airborne sugar dust can explode under certain conditions of temperature and humidity and in the presence of an ignition source when the concentration exceeds 25 grams per cubic metre. Intrinsically safe dust extraction systems, cleaning procedures, electrical earthing and other safety measures must be used to avoid the risk of explosion. Incompatible with strong oxidising agents.
Precautions in connection with Fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Remove sources of ignition. Increase ventilation. Sweep up material avoiding dust generation, vacuum or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash area with water ensuring all wash water is captured and discharged to an approved treatment facility. Notify relevant waste or environmental authority as required by the site's EPA licence, trade waste agreement and/or State legislation.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Material can ferment if excessive moisture contamination is allowed. Fermentation can yield carbon dioxide with possible traces of ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) and if exposed to a spark or flame may result in an explosion. These conditions should be avoided. Airborne sugar dust can explode under certain conditions. Refer to Section 5: Fire Fighting Measures: Specific hazards. If maintenance of a storage bin / vessel requires entry by personnel, confined space precautions should be complied with. Insufficient oxygen may be present in vessels containing the product due to the generation of gases during fermentation. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe Storage	This product should be stored in its factory packaging in a cool, dry, well ventilated area, away from sources of ignition, oxidising agents and out of moisture. Keep containers closed when not in use.
Other Information	For further information refer to Sugar Australia's 'Granulated White Sugar Storage and Handling in Bulk', Sugar Australia's 'Explosion Risk Management and Housekeeping Standards for Sugar' and Sugar Australia's 'Granulated and Powdered White Sugar Storage and Handling in Flexible Intermediate Bulk Containers (FIBC) '.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for dust not otherwise specified is 10 mg/m ³ . TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. Keep exposures to dust as low as practicable
Biological Limit Values	No Biological limit available.
Engineering Controls	General room ventilation should be adequate, but local mechanical ventilation may be required if dust is generated, particularly in confined spaces. Work areas should be cleaned regularly by wet sweeping or vacuuming.
Respiratory Protection	An approved particulate respirator conforming to Australian Standards AS/NZS 1715 and AS/NZS 1716 should be worn when working with dusts. Respirators should be correctly fitted, maintained in good condition, and kept in clean storage when not in use. Replaceable filters and cartridges should be replaced regularly in accordance with the manufacturers' guidelines and Australian



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Eye Protection	Standards AS/NZS 1715 and AS/NZS 1716. Use only respirators that bear the Australian Standards mark and are fitted and maintained correctly, and kept in clean storage when not in use. Ventilated non-fogging goggles, splash resistant should be worn if dust is generated. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material (such as PVC coated fabric). Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Personal Protective Equipment	If engineering controls and work practices are not effective in controlling exposure, then personal protective equipment may be required.
Body Protection	Skin Protection: Direct skin contact should be avoided by wearing long sleeved shirts and long trousers, a cap or hat, and gloves (PVC coated fabric or equivalent AS 2161). Work clothes should be washed regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties	Physical and Chemical Properties given below relate to Crystalline Sugar (Sucrose)
Appearance	White crystalline solid
Odour	Sweet odour
Melting Point	160-186°C
Boiling Point	Decomposes with heat.
Solubility in Water	2 kg per litre
Specific Gravity	1.59
pH Value	Not available
Vapour Pressure	Not applicable
Vapour Density (Air=1)	Not applicable
Evaporation Rate	Not applicable
Flash Point	Not applicable
Flammability	Combustible, product will burn in surrounding fire situation.
Auto-Ignition Temperature	500°C
Flammable Limits - Lower	Combustible
Flammable Limits - Upper	Combustible
Molecular Weight	342
Explosion Limit - Lower	25-45 g/m ³
Solubility in other solvents (kg/m³)	Not applicable
Other Information	For further information refer to Sugar Australia's 'White Sugar Properties'.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use and storage
Conditions to Avoid	Heat, flames and other ignition sources.
Incompatible Materials	Incompatible with oxidising agents.



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Hazardous Decomposition Products	Carbon dioxide and carbon monoxide may form when heated to decomposition. Ethanol or volatile fatty acids (e.g. acetic, propionic, lactic or butyric) if fermentation occurs.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information Inhalation	Toxicity Data: Non-toxic - a foodstuff Sucrose: LD50 (Ingestion) : 29,700 mg/kg (rat) Sugar dust may irritate the nose and throat.
Ingestion	No health effects under normal conditions of industrial use, but ingestion may destabilise people with diabetes.
Skin	Skin contact may result in mild skin irritation.
Eye	Irritating to the eyes and may cause watering and redness.
Chronic Effects	Repeated exposure to the powder and dust may result in increased nasal and respiratory secretions and coughing, but not irreversible health effects. Repeated skin contact may cause dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Non-toxic to aquatic and terrestrial organisms. Sucrose is an oxygen depleting substance in aquatic environments.
Persistence / Degradability	Not available.
Mobility	Not available.
Environ. Protection	Do not discharge product unmonitored into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Product can be treated as a common waste for disposal to an organic recycler or into a landfill site / wastewater treatment plant in accordance with relevant Authority guidelines. Note Biochemical Oxygen Demand load in waste water streams. Return product to supplier for re-use / recycling if possible. Consult supplier for recycling options. Recycle containers if possible or dispose of in an authorised landfill. Transportation of wet sugar waste may require Waste Transport Certification. Refer to your local Environment Protection Authority.
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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
IMDG Marine Pollutant (MP)	Not a marine pollutant.

15. REGULATORY INFORMATION

Poisons Schedule	Not Scheduled
AICS (Australia)	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS), or otherwise are in compliance with the NICNAS requirements.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS reviewed: February 2010 MSDS superseded: November 2009
Contact Person/Point	Emergency Contact Number: Poisons Information Centre 13 11 26 For further information on this product, please contact the following: Sugar Australia Pty Limited ABN 82 081 245 169 265 Whitehall St Yarraville VIC 3013 Australia Telephone: 61 3 9283 4558 Facsimile: 61 3 9689 4085



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**Literature
References**

Australian Standards References:
AS/NZS 1336 Recommended Practices for Occupational Eye Protection.
AS/NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices.
AS/NZS 1716 Respiratory Protective Devices.
AS 2161 Industrial Safety Gloves and Mittens (excluding electrical and medical gloves).
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)], April 2003, National Occupational Health and Safety Commission.
Sugar Australia's 'Granulated White Sugar Storage and Handling in Bulk'
Sugar Australia's 'Explosion Risk Management and Housekeeping Standards for Sugar'
Sugar Australia's 'Granulated and Powdered White Sugar Storage and Handling in Flexible Intermediate Bulk Containers (FIBC)'
Sugar Australia's 'White Sugar Properties'

Other Information

Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.
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