



SAFETY DATA SHEET

WHITE SUGARS (CRYSTALLINE)

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ISSUED Date: 08/01/2015
ISSUED BY Sugar Australia Pty
Limited

1. IDENTIFICATION

GHS Product Identifier

WHITE SUGARS (CRYSTALLINE)

Product Code**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 of the chemical and restrictions on use

As a sweetener or ingredient in food processing and food preparation.

Other Names

Name	Product Code
SUCROSE	
SUGAR	
REFINED SUGAR	
CASTER SUGAR	
CSR JAM SETTING SUGAR	
CSR SMART	
AGAVE SUGAR	

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. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Other Information

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Sucrose	57-50-1	90-100 %
Non hazardous additives		0-10 %

4. FIRST-AID MEASURES

Inhalation

Not considered a potential route of exposure. However, if inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Unlikely to cause adverse effects. If ingested in large amounts and symptoms develop seek medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

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.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific Hazards Arising From The Chemical

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.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

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, including any incompatibilities

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

Occupational exposure limit values

No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels. 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. Source: Safe Work Australia

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Use with good general ventilation.

Respiratory Protection

Generally not required.

Industrial applications: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Not required under normal conditions of use. However, avoid eye contact.

Industrial Applications: Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Not required under normal conditions of use.

Industrial Applications: 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. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Industrial applications: Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Solid

Appearance

Crystalline solid

Colour

White

Physical and chemical properties

Physical and Chemical Properties given below relate to Crystalline Sugar (Sucrose).

Odour

Sweet odour

Decomposition Temperature

Not available

Melting Point

160-186°C

Boiling Point

Decomposes with heat

Solubility in Water

2 kg per litre

Specific Gravity

1.59

pH

Not available

Vapour Pressure

Not applicable

Vapour Density (Air=1)

Not applicable

Evaporation Rate

Not applicable

Odour Threshold

Not available

Viscosity

Not applicable

Partition Coefficient: n-octanol/water

Not available

Flash Point

Not applicable

Flammability

Combustible

Auto-Ignition Temperature

500°C

Flammable Limits - Lower

25-45 g/m³

Flammable Limits - Upper

Not available

Molecular Weight

342

Other Information

For further information refer to Sugar Australia's "White Sugar Properties".

10. STABILITY AND REACTIVITY

Reactivity

Reacts with incompatible materials.

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Heat, open flames and other sources of ignition.

Incompatible materials

Incompatible with oxidising agents.

Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen. Ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) if fermentation occurs.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral

Non-toxic - a foodstuff

Sucrose: LD50 (rat): 29,700 mg/kg

Ingestion

No health effects under normal conditions of industrial use, but ingestion may destabilise people with diabetes.

Inhalation

Inhalation of dusts may irritate the respiratory system. Repeated exposure to the powder and dust may result in increased nasal and respiratory secretions and coughing, but not irreversible health effects.

Skin

Skin contact may cause mechanical irritation resulting in redness and itching. Repeated skin contact may cause dermatitis.

Eye

May be irritating to eyes. The symptoms may include redness, itching and tearing.

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Non-toxic to aquatic and terrestrial organisms. Sucrose is an oxygen depleting substance in aquatic environments.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Product can be treated as a common waste for disposal to an organic recycler or into a landfill site in accordance with relevant Authority guidelines. Note Biochemical Oxygen Demand load of sugar solutions in waste water streams.

Return product to supplier for reuse / 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.

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

No

15. REGULATORY INFORMATION

Regulatory information

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

Australia (AICS)

All components of this product are listed on the Inventory or exempted.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Reviewed: January 2015

Supersedes: February 2010

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

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

Other Information

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END OF SDS

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