



# Material Safety Data Sheet

Infosafe No™ 1ZEKF Issue Date : February 2010 ISSUED by SUGAR

Product Name : LIQUID SUGAR

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** LIQUID SUGAR

**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** Name Product Code  
SUGAR SYRUP  
SUCROSE SYRUP

**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** Not classified as hazardous  
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	Name	CAS	Proportion
	Sucrose	57-50-1	66-68 %
	Water	7732-18-5	32-34 %

## 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.

**Hazards from Combustion** With heat, product burns/oxidises to form carbon, carbon monoxide and or carbon dioxide, and smoke.

**Products Specific Hazards** Heating of containers can cause expansion or decomposition leading to rupture.

**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

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<b>Emergency Procedures</b>	Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. Wet sweep, vacuum or shovel into suitable labelled containers. 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

<b>Precautions for Safe Handling</b>	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. Fermentation may also occur in dilute surface layers formed by condensation from the headspace above the liquid. These conditions should be avoided. If maintenance of a storage tank 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. Keep containers sealed when not in use. Establish good housekeeping practices. Maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.
<b>Conditions for Safe Storage</b>	This product should be stored in its factory packaging in a dry area. Liquid Sugar in bulk should be stored in a vented tank designed to contain a material with a specific gravity of 1.34 or greater. Localised microbiological deterioration may start in areas where the liquid becomes diluted.
<b>Other Information</b>	For further information refer to Sugar Australia's 'Liquid Sugar Storage and Handling in Bulk'

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	No exposure standards have been established for the mixture by the National Occupational Health & Safety Commission (NOHSC). Avoid liquid mist generation.
<b>Biological Limit Values</b>	No Biological limit available.
<b>Engineering Controls</b>	General room ventilation should be adequate, but local mechanical ventilation may be required if liquid mists are generated, particularly in confined spaces. Work areas should be cleaned regularly by wet sweeping or vacuuming.
<b>Respiratory Protection</b>	An approved particulate respirator conforming to Australian Standards AS/NZS 1715 and AS/NZS 1716 should be worn when working in liquid mists or 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 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.
<b>Eye Protection</b>	Safety glasses with side shields or chemical goggles should be worn if splashes are likely to occur. 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.
<b>Hand Protection</b>	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.
<b>Personal Protective Equipment</b>	If engineering controls and work practices are not effective in controlling exposure, then personal protective equipment may be required.
<b>Body Protection</b>	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

<b>Appearance</b>	Colourless to pale yellow liquid
<b>Odour</b>	Faint caramel odour
<b>Melting Point</b>	Not applicable

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<b>Boiling Point</b>	>105°C
<b>Solubility in Water</b>	Totally miscible
<b>Specific Gravity</b>	1.33-1.34
<b>pH Value</b>	6.0-8.5 at time of manufacture
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not flammable however, following evaporation of water will burn in fire condition.
<b>Auto-Ignition Temperature</b>	500°C after evaporation of water.
<b>Flammable Limits - Lower</b>	Not applicable
<b>Flammable Limits - Upper</b>	Not applicable
<b>Solubility in other solvents (kg/m3)</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.
<b>Incompatible Materials</b>	Incompatible with oxidising agents (eg. peroxides).
<b>Hazardous Decomposition Products</b>	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.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Toxicity Data: Non-toxic - a foodstuff Sucrose: LD50 (Ingestion) : 29,700 mg/kg (rat)
<b>Inhalation</b>	No health effects under normal conditions of industrial use but when aerolised into liquid mists may cause irritation to nose and throat.
<b>Ingestion</b>	No health effects under normal conditions of industrial use, but ingestion may destabilise people with diabetes.
<b>Skin</b>	Skin contact may result in mild skin irritation.
<b>Eye</b>	Irritating to the eyes and may cause watering and redness.
<b>Chronic Effects</b>	Repeated skin exposure to this product may result in skin irritation and if persistent, dermatitis which may become infected.

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	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.
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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. Refer to your local Environment Protection Authority.

## 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** Minor Amendment: June 2012  
MSDS created: February 2010

**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

**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.

**Other Information** Sugar Australia's 'Liquid Sugar Storage and Handling in Bulk'  
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