



Material Safety Data Sheet

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Infosafe No™ 8AC30 Issue Date : February 2010 ISSUED by SUGAR

Product Name : **INVERT SYRUP/GOLDEN SYRUP/TREACLE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	INVERT SYRUP/GOLDEN SYRUP/TREACLE						
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	<table><thead><tr><th><u>Name</u></th><th><u>Product Code</u></th></tr></thead><tbody><tr><td>FRUCTOSE/ GLUCOSE/ SUCROSE SOLUTION IN WATER</td><td></td></tr><tr><td>GOLDEN SYRUP SQUEEZE AND MANUFACTURER'S GOLDEN SYRUP</td><td></td></tr></tbody></table>	<u>Name</u>	<u>Product Code</u>	FRUCTOSE/ GLUCOSE/ SUCROSE SOLUTION IN WATER		GOLDEN SYRUP SQUEEZE AND MANUFACTURER'S GOLDEN SYRUP	
<u>Name</u>	<u>Product Code</u>						
FRUCTOSE/ GLUCOSE/ SUCROSE SOLUTION IN WATER							
GOLDEN SYRUP SQUEEZE AND MANUFACTURER'S GOLDEN 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	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>
	Fructose	57-48-7	<35 %
	Sucrose	57-50-1	<35 %
	Glucose	50-99-7	<35 %
	Water	7732-18-5	<30 %

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 Products	With heat, product burns/oxidises to form carbon, carbon monoxide and or carbon dioxide, and smoke.
Specific Hazards	Heating of containers can cause expansion or decomposition leading to rupture.

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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 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.

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. 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.

Conditions for Safe Storage This product should be stored in its factory packaging in a dry area. This product in bulk should be stored in a vented tank designed to contain a material with a specific gravity of 1.45 or greater. Localised microbiological deterioration may start in areas where the liquid becomes diluted. Storage above 40°C can lead to spontaneous decomposition.

Other Information For further information refer to Sugar Australia's 'Liquid Sugar Storage and Handling in Bulk'

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for the mixture by the National Occupational Health & Safety Commission (NOHSC).

Biological Limit Values No Biological limit available.

Engineering Controls 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.

Respiratory Protection 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.

Eye Protection 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.

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 Body Protection If engineering controls and work practices are not effective in controlling exposure, then personal protective equipment may be required.
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale yellow liquid, viscous red liquid or viscous black liquid
Odour	Sweet odour
Melting Point	Not applicable
Boiling Point	>105°C
Solubility in Water	Totally miscible
Specific Gravity	1.3 -1.4
pH Value	5-7 at time of manufacture
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Flash Point	Not applicable
Flammability	Not flammable however, following evaporation of water will burn in fire condition.
Auto-Ignition Temperature	500°C after evaporation of water.
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable
Solubility in other solvents (kg/m3)	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	Heat, flames and other ignition sources.
Incompatible Materials	Incompatible with oxidising agents (eg. peroxides).
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	Toxicity Data: Non-toxic - a foodstuff Sucrose: LD50 (Ingestion) : 29,700 mg/kg (rat) Glucose: LD50 (Ingestion) : 25,800 mg/kg (rat)
Inhalation	No health effects under normal conditions of industrial use but when aerolised into liquid mists may cause irritation to 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 skin exposure to this product may result in skin irritation and if persistent, dermatitis which may become infected.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Non-toxic to aquatic and terrestrial organisms. Sucrose is an oxygen depleting substance in aquatic environments.
Persistence / Degradability	Not available.



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Product Name : **INVERT SYRUP/GOLDEN SYRUP/TREACLE****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 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. 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 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.
Sugar Australia's 'Liquid Sugar Storage and Handling in Bulk'**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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