



# SAFETY DATA SHEET

## GLUCOSE SYRUP

Infosafe No.: LPYXM  
Version No.: 1.0  
ISSUED Date: 08/01/2015  
ISSUED BY Sugar Australia Pty  
Limited

### 1. IDENTIFICATION

**GHS Product Identifier**

GLUCOSE SYRUP

**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
CSR CANDYCLEAR™, CSR HUMIGARDE™, CSR MULTIBREW™, MALTOSE 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. 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

---

### Composition, information on ingredients

Quality control analyses of the product has shown that sulphur dioxide content may be zero to a few ppm in various samples. 50ppm is given as a maximum content level.

### Ingredients

Name	CAS	Proportion
Glucose, Maltose, Maltotriose, other Polysaccharides		>60 %
Water	7732-18-5	<32 %
Salt	7647-14-5	0-0.3 %
Sulphur dioxide	7446-09-5	trace (50ppm)

## 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.

**5. FIRE-FIGHTING MEASURES**

---

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical, BCF and foam, water mist or water spray.

**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**

This product will burn if exposed to fire. Heating can cause expansion or decomposition leading to violent rupture of containers.

**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**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the 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. 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.

Avoid exposure. Use only in a well ventilated area. Keep containers tightly closed. Prevent the build up of dusts, mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. 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 dry area. Glucose syrup 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 400°C can lead to spontaneous decomposition. For further information reference should be made to Sugar Australia's Liquid Sugar Storage and Handling in Bulk.

### **Storage Temperatures**

Storage below 400°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### **Occupational exposure limit values**

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

### **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 vapor/ mist 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**

Liquid

### **Appearance**

Viscous liquid

### **Colour**

Clear

### **Odour**

Slightly sweet to odourless

### **Decomposition Temperature**

Not available

### **Melting Point**

-30°C to -10°C

### **Boiling Point**

104°C - 115°C

### **Solubility in Water**

100%

### **Specific Gravity**

1.35 -1.45 (water=1)

### **pH**

4.0-6.5 (typical)

### **Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Odour Threshold**

Not available

**Viscosity**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

Not available

**Flammability**

Combustible

**Auto-Ignition Temperature**

500°C (after evaporation of water)

**Flammable Limits - Lower**

Not applicable

**Flammable Limits - Upper**

Not applicable

**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.

**Hazardous Polymerization**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

---

### **Toxicology Information**

No toxicology data available for this product.

### **Ingestion**

No adverse effects expected, however large amounts may cause nausea and vomiting. Ingestion may destabilise people with diabetes.

### **Inhalation**

No adverse effects expected.

### **Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling. Repeated skin exposure to Glucose Syrup may result in skin irritation and if persistent, dermatitis which may become infected. The trace of sulphur dioxide which may be present may form sulphites in use and may cause allergy or allergic reactions in persons with sulphite allergy. This is similar to the allergy potential found in many foods and fruit or wines which have traces of sulphites.

### **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 organisms. Glucose 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

## 16. OTHER INFORMATION

---

### Date of preparation or last revision of SDS

SDS Reviewed: January 2015

Supersedes: May 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

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.

---

**END OF SDS**

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.