

### Safety Data Sheet

Version 1.1

Revision date 01/09/2012/JK-IA

## **SECTION 1. Product and company identification**

Chemical type : Substance
Substance name : Sucrose
CAS No. : 57-50-1
Product code : RC-100
Formula : C12H22O11

Synonyms : (alpha-dextro-glucosido)-dextro-fructofuranoside / (alpha-D-glucosido)-beta-D-fructofuranoside /

alpha-dextro-glucopyranoside, beta-dextro-fructofuranosyl / alpha-dextro-glucopyranosyl-beta-dextro-fructofuranoside / alpha-D-glucopyranosyl beta-D-fructofuranoside / beet sugar / beta-dextro-fructofuranoside-alpha-dextro-glucopyranosyl / beta-dextro-fructofuranosyl-alpha-dextro-glucopyranoside / beta-D-fructofuranoside, alpha-D-glucopyranosyl / cane sugar / confectioner's

sugar / fructofuranoside, alpha-D-glucopyranosyl, beta-D / glucopyranoside, beta-D-fructofuranosyl, alpha-D / granulated sugar / rock candy / saccharum / sucrose / sucrose,

dextro(+)- / sucrose, pure / sugar

Company identification : G-Biosciences/ Geno Technology, Inc.

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### **SECTION: 2. Hazards identification**

### 2.1. Emergency Overview

Physical state : Solid

Appearance : Crystalline solid. Powder

Colour : White
Odour : Odourless

### Sucrose(57-50-1)

### 2.2. OSHA Regulatory Status

No additional information available

### 2.3. Potential health effects

Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract.

Symptoms/injuries after skin contact : Unlikely to cause harmful effects. Symptoms/injuries after eye contact : Unlikely to cause harmful effects. Symptoms/injuries after ingestion : Unlikely to cause harmful effects.

#### 2.4. Potential environmental effects

No additional information available

### SECTION: 3. Composition/information on ingredients

Name	CAS No.	%
Sucrose	57-50-1	100

#### 4.1. First aid procedures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Take victim to a doctor if irritation persists. Rinse immediately with plenty of

water for 20 minutes.

First-aid measures after eye contact : Rinse with water. Take victim to an ophthalmologist if irritation persists. Rince immediately with

water for 20 minutes.

First-aid measures after ingestion : Immediately after ingestion: give lots of water to drink. Call Poison Information Centre

(www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. If unwell: consult a

doctor and show packaging and/or label and this card where possible.

### 4.2. Note to physicians

No additional information available

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### **SECTION: 5. Firefighting measures**

#### 5.1. Flammable properties

Fire hazard : DIRECT FIRE HAZARD. Literature reports direct fire hazard. In finely divided state: increased

fire hazard. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a

fire hazard: see "Reactivity Hazard".

Explosion hazard : DIRECT EXPLOSION HAZARD. Its dust is explosive with air. INDIRECT EXPLOSION HAZARD.

Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".

Reactivity : Upon combustion CO and CO2 are formed. Reacts with (strong) oxidizers: (increased) risk of fire/explosion. Reacts exothermically with (strong) acids: release of harmful gases/vapours

(carbon monoxide - carbon dioxide).

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Polymer foam. ABC powder. Carbon dioxide.

5.3. Protection for firefighters

Firefighting instructions : No specific fire-fighting instructions required.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

#### SECTION: 6. Accidental release measures

#### 6.1. Personal precautions

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash

contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods for containment

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water

spray. Provide equipment/receptacles with earthing. Powdered form: no compressed air for

pumping over spills.

#### 6.4. Methods for clean up

Methods for cleaning up : Stop dust cloud by humidifying. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. See "Material-handling" for suitable container materials.

Clean contaminated surfaces with an excess of water. Wash clothing and equipment after

handling.

#### 6.5. Other information

No additional information available

### 6.6. Spill or leak statements by type of chemical

No additional information available

### SECTION: 7. Handling and storage

#### 7.1. Handling

Precautions for safe handling : Comply with the legal requirements. Thoroughly clean/dry the installation before use. Powdered

form: no compressed air for pumping over. Avoid raising dust. Take precautions against electrostatic charges. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under

local exhaust/ventilation or with respiratory protection.

7.2. Storage

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.

Storage area : Store in a dry area. Store at room temperature. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing, watertight, dry, clean, correctly labelled, meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: paper. cardboard. wood. synthetic material.

#### SECTION: 8. Exposure controls/personal protection

#### 8.1. Exposure guidelines

Sucrose (57-50-1)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³

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#### 8.2. Engineering controls

No additional information available

### 8.3. Personal protective equipment (PPE)

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data

available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data

available

Hand protection : Gloves.

Eye protection : Safety glasses. In case of dust production: protective goggles.

Skin and body protection : Protective clothing.

Respiratory protection : Dust production: dust mask with filter type P1. Dust production: dust mask with filter type P3.

### SECTION: 9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Powder.

Molecular mass : 342.30 g/mol Colour : White.

Odour : Odourless.

Odour threshold : No data available pH : No data available

Melting point : > 160 °C

Solidification point : No data available **Boiling point** No data available Flash point No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Explosive limits No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available

Relative density : 1.6
Density : 1587 kg/m³

Solubility : Soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in glycerol. Soluble in pyridine.

Water: 200 g/100ml Ethanol: 0.59 g/100ml

Log Pow : -3.70 (experimental)
Self ignition temperature : No data available

Decomposition temperature : 190 °C

Viscosity : No data available Explosive properties : No data available Oxidising properties : No data available

VOC content : 0 %

Other properties : Hygroscopic.

### SECTION: 10. Stability and reactivity

#### 10.1. Chemical stability

Upon combustion CO and CO2 are formed. Reacts with (strong) oxidizers: (increased) risk of fire/explosion. Reacts exothermically with (strong) acids: release of harmful gases/vapours (carbon monoxide - carbon dioxide).

Hygroscopic.

#### 10.2. Conditions to avoid

No additional information available

### 10.3. Incompatible materials

No additional information available

### 10.4. Hazardous decomposition products

No additional information available

### 10.5. Possibility of hazardous reactions

No additional information available

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### **SECTION: 11. Toxicological information**

#### Information on toxicological effects

Acute toxicity : Not classified

Sucrose (57-50-1)	
LD50 oral rat	29700 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified

### SECTION: 12. Ecological information

### 12.1 Ecotoxicity

Aspiration hazard

Ecology - air : Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009).

: Not classified

### 12.2. Persistence and degradability

Sucrose(57-50-1)		
Persistence and degradability	Readily biodegradable in water. test: 81 %, OECD 302B Zahn- Well.	
Biochemical oxygen demand (BOD)	0.69 g O <sup>2</sup> /g substance	
ThOD	1.12 g O <sup>2</sup> /g substance	
BOD (% of ThOD)	61 % ThOD	

#### 12.3. Bioaccumulation/Accumulation

Sucrose(57-50-1)	
Log Pow	-3.70 (experimental)
Bioaccumulative potential	Bioaccumulation: not applicable.

### 12.4. Mobility in environmental media

No additional information available

### 12.6. Other adverse effects

No additional information available

### **SECTION: 13. Disposal considerations**

### 13.1. Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Remove to an authorized

dump.

Additional information : LWCA (the Netherlands): KGA category 03.

### **SECTION: 14. Transport information**

#### 14.1. Basic shipping description

No additional information available

### 14.2 Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : Rail and road transport: not subject to ADR-RID.

### **Overland transport**

No additional information available

### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION: 15. Regulatory information

#### 15.1. US Federal regulations

### No additional information available

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### 15.2. International regulations

#### **CANADA**

No additional information available

### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### **National regulations** 15.2.2.

No additional information available

### 15.3. US State regulations

No additional information available

## **SECTION: 16. Other information**

NFPA health hazard

: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

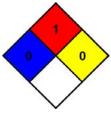
NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not

reactive with water.



### **HMIS III Rating**

No additional information available

SDS US (ANSI) GBiosciences