# SAFETY DATA SHEET

Version 4.5 Revision Date 07/01/2014 Print Date 05/17/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Sucrose

Product Number S8501 Brand Sigma

Product Use For laboratory research purposes.

Sigma-Aldrich Canada Co. Sigma-Aldrich Corporation Supplier Manufactur

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OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

**USA** 

Telephone +1 9058299500 Fax +1 9058299292

Emergency Phone # (For

Preparation Information

both supplier and manufacturer)

+1-703-527-3887 (CHEMTREC)

**CANADA** 

Product Safety - Americas Region

Sigma-Aldrich Corporation

1-800-521-8956

# 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

#### WHMIS Classification

Not WHMIS controlled.

Not a dangerous substance according to GHS.

**HMIS Classification** 

0 Health hazard: Flammability: 0 Physical hazards: 0

### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Skin

**Eyes** May cause eye irritation. Ingestion May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : α-D-Glucopyranosyl β-D-fructofuranoside

 $\alpha$ -D-Glc-(1→2)- $\beta$ -D-Fru D(+)-Saccharose

Sugar

β-D-Fructofuranosyl-α-D-glucopyranoside

Formula  $C_{12}H_{22}O_{11}$ Molecular Weight : 342.30 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Sucrose			
57-50-1	200-334-9	-	<=100%

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#### 4. FIRST AID MEASURES

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIREFIGHTING MEASURES

## **Conditions of flammability**

Not flammable or combustible.

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

## Explosion data - sensitivity to mechanical impact

no data available

## Explosion data - sensitivity to static discharge

no data available

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid dust formation. Avoid breathing vapours, mist or gas.

## **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis		
Sucrose	57-50-1	TWA	10 mg/m3	Canada. British Columbia OEL		
Remarks		The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction.				
		TWA	3 mg/m3	Canada. British Columbia OEL		
		TWAEV	10 mg/m3	Canada. Ontario OELs		

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TWA	10 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
TWAEV	10 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

### Personal protective equipment

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

General industrial hygiene practice.

# Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form crystalline
Colour white

Safety data

pH 5.5 - 7 at 342 g/l at 25 °C (77 °F)

Melting Point/range: 185 - 187 °C (365 - 369 °F)

point/freezing point

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Boiling point no data available
Flash point no data available
Ignition temperature no data available
Auto-ignition no data available

temperature

Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density no data available

Water solubility 0.5 g/mL - completely soluble

Partition coefficient:

n-octanol/water

no data available

Relative vapour

density

no data available

Odour no data available
Odour Threshold no data available
Evapouration rate no data available

## 10. STABILITY AND REACTIVITY

### **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

no data available

#### Conditions to avoid

no data available

#### Materials to avoid

Strong oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### Oral LD50

LD50 Oral - rat - 29,700 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Cyanosis Diarrhoea

## Inhalation LC50

no data available

## **Dermal LD50**

no data available

#### Other information on acute toxicity

no data available

## Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation

no data available

## Respiratory or skin sensitisation

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no data available

## Germ cell mutagenicity

no data available

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

## **Teratogenicity**

no data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

## Aspiration hazard

no data available

#### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Synergistic effects

no data available

## **Additional Information**

RTECS: WN6500000

## 12. ECOLOGICAL INFORMATION

#### **Toxicity**

no data available

# Persistence and degradability

no data available

# Bioaccumulative potential

no data available

## Mobility in soil

no data available

#### PBT and vPvB assessment

no data available

#### Other adverse effects

no data available

# 13. DISPOSAL CONSIDERATIONS

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### WHMIS Classification

Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## **16. OTHER INFORMATION**

#### **Further information**

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