

# **SAFETY DATA SHEET**

Version 6.5 Revision Date 07.10.2020 Print Date 23.05.2021

### SECTION 1: Identification of the hazardous chemical and of the supplier

#### **Product identifiers** 1.1

Product name : Sucrose

Product Number : S9378 Brand Sigma CAS-No. 57-50-1

#### 1.2 Other means of identification

 $\alpha$ -D-Glucopyranosyl  $\beta$ -D-fructofuranoside

a-D-Glc-(1→2)- $\beta$ -D-Fru

D(+)-Saccharose

Sugar

β-D-Fructofuranosyl-a-D-glucopyranoside

#### Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For R&D use only. Not for pharmaceutical, household or other

#### 1.4 Details of the supplier of the safety data sheet

SIGMA-ALDRICH (M) SDN BHD Company

> Level 3, Menara Sunway Annexe, Jalan Lagoon Timur, Bandar Sunway, 46150 PETALING JAYA, SELANGOR

**MALAYSIA** 

Telephone +60 (603)03-563-53321 Fax +60 (603)03-563-54116

1.5 Emergency telephone

Emergency Phone # : 1-800-815-308 (CHEMTREC) \* + 62 0800

140 1253 (Customer Call Centre)

#### **Section 2: Hazard identification**

#### **GHS Classification**

Classification according to CLASS regulations 2013

Not a hazardous substance or mixture.

#### **GHS Label elements, including precautionary statements** 2.2

Labelling according to CLASS regulations 2013

Pictogram none Signal word none Hazard statement(s) none Precautionary none statement(s)

MGBCK

Not a hazardous substance or mixture.

#### 2.3 Other hazards

May form explosible dust-air mixture if dispersed.

### **SECTION 3:** Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Substance

3.1 Substances

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

> > a-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. : 57-50-1 EC-No. : 200-334-9

#### **Hazardous ingredients**

Component	Classification	Concentration
Saccharose		
		<= 100 %

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed 4.3

No data available

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

#### **Extinguishing media**

Sigma-S9378

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder



Page 2 of 8

### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

### **5.3** Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

## **5.4** Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

No data available

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls and personal protection**

### 8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control	Basis
			parameters	

Saccharose	57-50-1	TWA	J.	Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals
				Hazardous to Health) Regulations 2000.

### 8.2 Exposure controls

#### **Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

#### **Personal protective equipment**

### Eye/face protection

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

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

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

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

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

Material tested: KCL 741 Dermatril® L

#### **Respiratory protection**

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains.

### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline

Color: white

b) Odor No data available

Sigma- S9378 Page 4 of 8



c) Odor Threshold No data available

d) pH 5.5 - 7.5 at 342 g/l at 25 °C

e) Melting point/range: 185 - 187 °C

point/freezing point f) Initial boiling point 697.11 °C at 1,013.3 hPa

and boiling range

g) Flash point Not applicableh) Evaporation rate No data available

i) Flammability (solid, May form combustible dust concentrations in air.

gas)

j) Upper/lower No data available flammability or

explosive limits

k) Vapor pressure No data available
 l) Vapor density No data available
 m) Relative density 1.59 g/cm3 at 25 °C

n) Water solubility 342 g/l at 20 °C - completely soluble

o) Partition coefficient: log Pow: -3.277

n-octanol/water

p) Autoignition No data available temperature

q) Decomposition 160 - 165 °C - temperature

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties No data available

#### 9.2 Other safety information

No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

no information available

#### 10.5 Incompatible materials

Strong oxidizing agents

Merck

### 10.6 Hazardous decomposition products

Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides In the event of fire: see section 5

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

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - 29,700 mg/kg

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

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

Mutagenicity (mammal cell test):

Result: negative

(National Toxicology Program)

#### Carcinogenicity

IARC: No ingredient 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

### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: WN6500000

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

Substances which occur in nature

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

### **SECTION 13: Disposal information**

#### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions. According to Quality Environment Regulation (Scheduled Waste) 2005, waste need to be sent to designated premise for recycle, treatment or disposal. Please contact Kualiti Alam for waste classification and correct disposal method.

#### **SECTION 14: Transportation information**

14.1 UN number

ADR/RID: - IMDG: - IATA-DGR: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA-DGR: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA-DGR: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA-DGR: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

# 14.6 Special precautions for user

#### 14.7 Incompatible materials

Strong oxidizing agents

### **Further information**

Sigma- S9378 Page 7 of 8

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Notification status**

AICS: On the inventory, or in compliance with the inventory

DSL: All components of this product are on the Canadian DSL

ENCS:

Not in compliance with the inventory - Saccharose

ISHL:

On the inventory, or in compliance with the inventory

KECI:

On the inventory, or in compliance with the inventory

NZIOC:

Not in compliance with the inventory - Saccharose

**PICCS:** On the inventory, or in compliance with the inventory

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

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Sigma- S9378 Page 8 of 8