

# SAFETY DATA SHEET SWEETPEARL® P200

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: SWEETPEARL® P200 - MALTITOL - E965I

**Chemical name:** 4-O-α-D-Glucopyranosyl-D-glucitol

**CAS-No.:** 585-88-6 **EC No.:** 209-567-0

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

Identified uses:	Uses advised against:
Food., Pharmaceuticals.,	No data available.

#### 1.3 Details of the supplier of the safety data sheet:

Supplier:

ROQUETTE FRERES

1 Rue de la Haute Loge
62136 LESTREM - France

Telephone: +33 3 21 63 36 00
Fax: +33 3 21 63 38 50
E-mail: sds@roquette.com

**National Supplier:** 

ROQUETTE AMERICA Inc. **Telephone:** +1 319 524 5757 1003 S. 5th STREET **Fax:** +1 319 526 3371

52632 - 6647 KEOKUK, IA - U.S.A

#### 1.4 Emergency telephone number:

National Capital Poison Center: 1 800 222 1222 (24/24)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture:

This product is not hazardous according to OSHA 29CFR 1910.1200.

2.2 Label elements: Not applicable

**2.3 Other hazards:** May form explosible dust-air mixture if dispersed in the air

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

#### 3.1 Substance:

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Chemical name	Concentration	CAS-No.
4-O-α-D-Glucopyranosyl-D-glucitol	>=99%	585-88-6

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures:

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**Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any

discomfort continues.

**Eye contact:** Flush thoroughly with water for at least 15 minutes. Get medical assistance.

**Skin contact:** Wash with soap and water.

**Ingestion:** Product not hazardous when ingested. Ingestion may cause: Diarrhoea.

Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and

delayed:

Ingestion may cause: Diarrhoea. Dust may irritate the eyes and the

respiratory system.

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

**Treatment:** Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media:

Suitable extinguishing

media:

Water spray.

Unsuitable extinguishing

media:

Dry chemicals or foams.

5.2 Special hazards arising from the substance or

mixture:

Fire or excessive heat may produce hazardous decomposition products. Combustible dusts: may form an explosible mixture in the air. See Section

10.

5.3 Advice for firefighters:

**Special Fire Fighting** 

**Procedures:** 

Prevent dust cloud.

Special protective

equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental precautions:

Not regarded as dangerous for the environment.

6.3 Methods and material for containment and cleaning

up:

Remove material, as much as possible, using mechanical equipment. Prevent dust cloud. Collect and dispose of spillage as indicated in section

13 of the SDS.

6.4 Reference to other

sections:

For waste disposal, see section 13 of the SDS.

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# **SECTION 7: Handling and storage**

7.1 Precautions for safe

handling:

See Section 8 of the SDS for Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed. Store in original container. Avoid contact

with oxidizing agents.

7.3 Specific end use(s): Food., Pharmaceuticals.,

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

#### 8.1 Control parameters:

#### **Occupational exposure limits:**

This product does not contain any components >1% with specific occupational exposure limits.

Chemical name	Туре	Exposure Limit Values	Source
Dust - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2019)
Dust - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2019)
Dust - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Dust - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Dust - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2016)
Dust - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2016)

# 8.2 Exposure controls:

Appropriate engineering

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

controls:

Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Wear dust-proof safety goggles where there is a risk of eyes contact.

Skin protection:

**Hand Protection:** No special precautions.

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dust, use suitable

respiratory equipment with particle filter (type P1).

Hygiene measures: Handle the product in accordance with the good hygiene practices and

safety instructions.

**Environmental exposure** 

controls:

Not regarded as dangerous for the environment.

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

#### 9.1 Information on basic physical and chemical properties:

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Physical State: solid
Form: Powder
Color: White
Odor: Odorless

**pH:** ~ 5.8 at 20 % w/w in water

Melting Point:~ 146 °CBoiling Point:Not ApplicableFlash Point:Not ApplicableVapor pressure:Not ApplicableVapor density (air=1):Not Applicable

Relative density: ~ 0.84

Solubility (other): Water. ~ 1,500 g/l at20 °C

Partition coefficient (n-octanol/water): -5.61 - Literature Reference -

Explosive properties: - INERIS -

MIT (Minimum ignition temperature): MITc (cloud) : ~ 400 °C (EN 50281-2-1 / ASTM E1491)

TDA (Differential Thermal Analysis), ∆t: ~ 200 °C

~ 280 bar/s (EN 14034-2 / ASTM E1226)

MIE (Minimum Ignition Energy): ~ 1,200 mJ

(dP/dt)max (Maximum Rate of explosion

Pressure rise):

Pmax (Maximum Explosion OverPressure) ±10%: ~ 7.2 bar (EN 14034-1 / ASTM E1226)

**Kst value (±20%):** ~ 76 barm/s (EN 14034-2 / ASTM E1226)

Dust Explosion Class: st 1 (VDI 3673)

Volume resistivity: >10° Ω.m (IEC 61241-2-2 / Group IIIB non-conductive

dust.)

 Moisture:
 0.1 % (ISO 589)

 Mv (Median value):
 ~ 104 μm (ISO 13320)

Other Data: MEC (Minimum Explosible Concentration): 30-60 g/m3 (EN 14034-3

ASTM E1515)

9.2 Other information:

Conductivity:  $\sim 0.2 \,\mu\text{S/cm} \text{ (at 50\%)}$ 

The data reported in this section does not take the place of specifications.

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity:** Oxidizing agents.

**10.2 Chemical stability:**Material is stable under normal conditions.

10.3 Possibility of hazardous reactions: No hazardous reactions under ordinary conditions of use and

storage.

**10.4 Conditions to avoid:** Prevent dust cloud. Dust clouds may be explosive under

certain conditions. Avoid dust close to ignition sources.

**10.5 Incompatible materials:** Strong oxidizing substances.

**10.6 Hazardous decomposition products:** Carbon Monoxide. Carbon Dioxide.

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects:

**Acute toxicity:** 

Test / Substance	Species	Type / Result	Exposure	Remarks
	Rat	LD50 - Oral : >2000 mg/kg Not		- Literature Reference -
4-O-a-D-		classified		
glucopyranosyl-D-				
glucitol				

**Skin irritation.:** No data available.

Serious eye irritation:

Test / Substance	Species	Result	Exposure	Remarks
OECD 405	Rabbit	Not Irritating	72 h	- ECHA Database -
Glucose syrups wheat		-		Data from similar product.
hydrolysed				·

#### Sensitization:

Test / Substance	Туре	Species	Result	Remarks
OECD 429		Mouse	Non-Sensitising	- ECHA Database -
Glucose syrups wheat				Data from similar product.
hydrolysed				,

Repeated dose toxicity:

Test / Substance	Species	Result	Exposure	Remarks
OECD 453 Syrups, hydrolyzed	Rat	NOAEL: 4500 mg/kg No treatment related effects.	52 Week(s).	- ECHA Database - Data from similar product.
starch, hydrogenated		related effects.		Data Irom Sirillai product.

Mutagenesis:

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Test / Substance	Туре	Species	Result	Remarks
OECD 471 (Ames)	In vitro	S. typhimurium	Negative	- Literature Reference -
4-O-a-D-				
glucopyranosyl-D-				
glucitol				
OECD 473	In vitro	Hamster	Negative	- ECHA Database -
Syrups, hydrolyzed				Data from similar product.
starch, hydrogenated				
OECD 474	In vivo	Mouse	Negative	- ECHA Database -
Syrups, hydrolyzed				Data from similar product.
starch, hydrogenated				-

**Carcinogenicity:** 

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
OECD 451 4-O-a-D- glucopyranosyl-D- glucitol	Rat	Oral 106 Week(s).	No treatment related effects.	- Literature Reference -

**Reproductive toxicity:** 

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
OECD 416 Syrups, hydrolyzed	Rat	Oral	No treatment related effects.	- Internal data - Data from similar product.
starch, hydrogenated				·

# **SECTION 12: Ecological information**

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**12.1 Toxicity:** No data available.

12.2 Persistence and degradability:

Test / Substance	Result	Remarks	
OECD 301b	> 73 % / 28 d	- ECHA Database -	
Glucose syrups wheat hydrolysed	The product is readily biodegradable.	Data from similar product.	

#### 12.3 Bioaccumulative potential:

Test / Substance	Log Pow (n-Octanol/Water Partition Coefficient)	Bioconcentration Factor (BCF) / Bioaccumulation	Remarks
	-5.61	~ 3	Potential to bioaccumulate is low.
4-O-a-D-glucopyranosyl-D-glucitol			- Literature Reference -

#### 12.4 Mobility in soil:

Test / Substance	Medium	Organic Carbon	Remarks
		Partition Coefficient	
		(Koc)	
	soil	~ 69	This material is readily biodegraded and is not
4-O-a-D-glucopyranosyl-			likely to bioconcentrate.
D-glucitol			- Literature Reference -

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: None known.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods:

**Product:** Dispose of waste in an appropriate authorized treatment facility in

accordance with regulations in force and product characteristics at time

of disposal.

Packaging material: Single use packaging. Collect for salvage or disposal.

# **SECTION 14: Transport information**

This material is not subject to transport regulations (DOT, IMDG, IATA).

# **SECTION 15: Regulatory information**

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

# US. NFPA 325 - Guide to Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids. :

NFPA Health Rating: 0 Physical hazard: 0 Flammability hazard: 1

#### US. HMIS Chemical Ratings (Hazardous Materials Information System, Chemical Ratings Guide):

Health hazard: 0

NFPA Special Hazard: No NFPA Instability Rating: 0 NFPA Flammability Rating: 1 Personal Protection: E

#### International Inventories:

Australia. Inventory of Chemical Substances (AICS):

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL).:

China. Inventory of Existing Chemical Substances (IECSC):

EU. European Inventory of Existing Commercial Chemical Substances (EINECS):

Japan. Inventory of Existing & New Chemical Substances (ENCS):

Listed.

Japan. Industrial Safety & Health Law (ISHL):

Listed.

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Korea. Existing Chemicals Inventory (KECI): Not listed Mexico. National Inventory of Chemical Substances (INSQ): Not listed New Zealand. Inventory of Chemicals (NZIoC): Listed. Philippines. Inventory of Chemicals and Chemical Substances (PICCS): Listed. Russian Federation. Unified list of chemicals: Listed. Taiwan. Existing Chemicals Inventory (TCSI): Listed. Thailand. Existing Chemicals Inventory from FDA (TECI): Listed. US. Toxic Substances Control Act (TSCA): Listed. Vietnam. National Chemical Inventory (NCI): Listed.

This Safety Data Sheet is in conformity with appendix D of the OSHA Hazard Communication Standard 29CFR 1910.1200.

## **SECTION 16: Other information**

**Revision Information:** Not relevant. Last revised date 02/11/2022 Key literature references and HSDB Database.

sources for data:

REACH registration dossier:

https://echa.europa.eu/registration-dossier/-/registered-dossier/31638

Other information: Updated version of this document is available at :https://www.roquette.com/site-

search#documents

#### Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CLP: Classification, Labelling and Packaging (Reg. EC 1272/2008).

OECD: Organisation for Economic Cooperation and Development

PBT: Persistent. Bioaccumulative and Toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals.

vPvB: very persistent and very bioaccumulative substance.

#### **Disclaimer:**

The information provided in this Safety Data Sheet (SDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to

our product for its possession, handling and use.

The information given is designed only as a guidance and is not to be considered a warranty or quality specification.

All information and instructions provided in this SDS are based on the current

state of our knowledge at the latest revision date indicated.

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