

SAFETY DATA SHEET NEOSORB® P200 SD

SECTION 1 : Identification

1.1 Product identifier:

Product name: NEOSORB® P200 SD

Synonyms: D-Glucitol - D-Sorbitol

Chemical name: D-Glucitol

CAS-No.: 50-70-4

EC No.: 200-061-5

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

Identified uses:	Uses advised against:
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

1.4 Emergency telephone number:

World directory of poisons centres : http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has not been classified as dangerous according to GHS.

2.2 Label elements:

Not applicable

2.3 Other hazards:

Dust may form an explosive mixture in the atmosphere.

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.
D-Glucitol	>97%	50-70-4

SECTION 4: First aid measures

4.1 Description of first aid measures:

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. Straight Streams of Water

5.2 Special hazards arising from the substance or mixture:

Fire or excessive heat may produce hazardous decomposition products. Dust may form an explosive mixture in the atmosphere. See Section 10.

5.3 Advice for firefighters:

Special Fire Fighting Procedures:	Prevent dust cloud. Do not use water jet as an extinguisher, as this will spread the fire.
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.

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:	Avoid contact with oxidizing agents. Store in cool, dry place.

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.

8.2 Appropriate engineering controls:

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

8.3 Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear dust-resistant safety glasses where there is danger of eye contact. (EN 166)

Skin protection:

Hand Protection: No specific 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). (EN 143)

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	solid
Form:	Powder
Water, moisture:	< 1.5 %
Color:	White
Odor:	Odorless
pH:	~ 5.6 at 50 %
Melting Point:	~ 95 °C
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Vapor pressure:	Not Applicable
Vapor density (air=1):	Not Applicable
Relative density:	~ 0.43
Solubility in Water:	~ 2,300 g/l at 20 °C
Partition coefficient (n-octanol/water):	-2.2 - Literature Reference -

Explosive properties: - CHILWORTH -Data from similar product.

Ignition Temperature:	~ 420 °C (EN 50281-2-1) MIT in Cloud. > 400 °C (EN 50281-2-1) 5 mm layer (Glowing Temperature).
MIE (Minimum Ignition Energy):	200 - 300 mJ (EN 13821 (Without Inductance, <63 µm).) Sensitive to ignition by an electrostatic phenomenon.
dP/dtmax (Maximum Rate of explosion Pressure rise):	~ 234 bar/s (EN 14034-2)
Pmax (Maximum Explosion OverPressure) ±10%:	~ 6.6 bar (EN 14034-1)
Kst value (±20%):	~ 63 barm/s (EN 14034-2)
Dust Explosion Class:	st 1 (VDI 3673)
Volume resistivity:	> 10 ⁹ Ω.m (IEC 61241-2-2 / Group IIIB non-conductive dust.)
Moisture:	~ 0.58 % (ISO 589)
Mv (Median value):	~ 145.08 µm (NFX 11-666)
Other Data:	BZ (Combustion class) : 3 (VDI 2263-1) LEL (Lower Explosion limit) : 30-60 g/m3

9.2 Other information:

Conductivity:	< 20 µS/cm (at 20%)
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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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity :

Test / Substance	Species	Type / Result	Exposure	Remarks
OECD 423 D-glucitol	Mouse	LD50 - Oral >2000mg/kg Not classified		- REACH data -
OECD 423 Syrups, hydrolyzed starch, hydrogenated	Rat	LD50 - Oral > 5000mg/kg Not classified		- REACH data - Data from similar product.
Other Guideline. D-glucitol	Rat	LD50 - Subcutaneous 29600mg/kg		- Literature Reference -
Other Guideline. D-glucitol	Rat	LD50 - Intravenous 7100mg/kg		- Literature Reference -

Skin irritation. :

Test / Substance	Species	Result	Exposure	Remarks
OECD 439 Glucose syrups wheat hydrolysed	Human	Not Irritating	1 h	- REACH data - Data from similar product.

Serious eye irritation :

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

Sensitization :

Test / Substance	Type	Species	Result	Remarks
OECD 429 Glucose syrups wheat hydrolysed	In vivo	Mouse	Non-Sensitising	- REACH data - Data from similar product.

Repeated dose toxicity :

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

Mutagenesis :

Test / Substance	Type	Species	Result	Remarks
OECD 473 Syrups, hydrolyzed starch, hydrogenated	In vitro	Hamster	Negative	- REACH data - Data from similar product.
OECD 471 (Ames) Syrups, hydrolyzed starch, hydrogenated	In vitro	S. typhimurium	Negative	- REACH data - Data from similar product.
OECD 474 Syrups, hydrolyzed starch, hydrogenated	In vivo	Mouse	Negative	- REACH data - Data from similar product.

Carcinogenicity :

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
OECD 451 Syrups, hydrolyzed starch, hydrogenated	Rat	Oral	No treatment related effects.	- REACH data - Data from similar product.

Reproductive toxicity :

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

SECTION 12: Ecological information

12.1 Toxicity:
Acute toxicity:

Test / Substance	Species	Type/Result	Exposure	Remarks
OECD 203 D-glucitol	Oryzias latipes	LC50 : >1430 mg/l	96 h	- REACH data -
OECD 202 D-glucitol	Daphnia magna	LC50 : >1390 mg/l	48 h	- REACH data -

Chronic Toxicity:

No data available.

12.2 Persistence and degradability:

Test / Substance	Result	Remarks
OECD 301b Syrups, hydrolyzed starch, hydrogenated	> 73 % / 28 d The product is readily biodegradable.	- REACH data - Data from similar product.
OECD 301b Syrups, hydrolyzed starch, hydrogenated	> 60 % / 10 d The product is readily biodegradable.	- REACH data - Data from similar product.

12.3 Bioaccumulative potential:

Test / Substance	Log Pow (n-Octanol/Water Partition Coefficient)	Bioconcentration Factor (BCF) / Bioaccumulation	Remarks
D-glucitol	-2.2	~ 3	Potential to bioaccumulate is low. - Literature Reference -

12.4 Mobility in soil:

Test / Substance	Medium	Organic Carbon Partition Coefficient (Koc)	Remarks
D-glucitol	soil	~ 10	This material is readily biodegraded and is not likely to bioconcentrate. - Literature Reference -

12.5 Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1 Disposal 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

14.1 - 14.4 This material is not subject to transport regulations (IMDG, ICAO/IATA, ADR/RID, ADN).

14.5 Environmental hazards: Not regulated.

14.6 Special precautions for user: No special precautions.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

International Inventories :

Australia. Inventory of Chemical Substances (AICS):	Listed.
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL):	Listed.
China. Inventory of Existing Chemical Substances (IECSC):	Listed.
EU. European Inventory of Existing Commercial Chemical Substances (EINECS):	Listed.
Japan. Inventory of Existing & New Chemical Substances (ENCS):	Listed.
Japan. Industrial Safety & Health Law (ISHL):	Listed.
Japan. Pharmacopoeia Listing:	Listed.
Korea. Existing Chemicals Inventory (KECI):	Listed.
Mexico. National Inventory of Chemical Substances (INSQ):	Listed.
New Zealand. Inventory of Chemicals (NZIoC):	Listed.
Philippines. Inventory of Chemicals and Chemical Substances (PICCS):	Listed.
Taiwan. Existing Chemicals Inventory (TCSI):	Listed.

Thailand. Existing Chemicals Inventory from FDA (TECI):
US. Toxic Substances Control Act (TSCA):
Vietnam. National Chemical Inventory:

Listed.
Listed.
Listed.

This Safety Data Sheet is in conformity with appendix 4 of the GHS (Globally Harmonised System of Classification and Labelling of Chemicals).

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: ECHA registered substances database.
HSDB Database.

Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%
LC50 : lethal concentration 50%
EC50 : The effective concentration of substance that causes 50% of the maximum response.
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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.