

SAFETY DATA SHEET

NEOSORB® 70/02B - LIQUID SORBITOL

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

1.1 Product identifier:

Product name: NEOSORB® 70/02B - LIQUID SORBITOL

Product No.: 000000201802

Synonyms: Sorbitol solution

Chemical name: D-Glucitol

CAS-No.: 50-70-4

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

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

1.3 Details of the supplier of the safety data sheet:

Supplier:

ROQUETTE AMERICA Inc.
1003 S. 5th STREET
52632 - 6647 KEOKUK, IA - U.S.A

Telephone: +1 319 524 5757

Fax: +1 319 526 3371

E-mail: sds@roquette.com

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:

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substance:

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

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. Material may be hot. May cause severe thermal burns.

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, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: Fire or excessive heat may produce hazardous decomposition products. See Section 10.

5.3 Advice for firefighters:

Special Fire Fighting Procedures: Cool containers exposed to heat with water spray and remove container, if no risk is involved.

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: Caution: Contaminated surfaces may be slippery. 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: Absorb spillage with suitable absorbent material. Collect and dispose of spillage as indicated in section 13 of the SDS. Flush area with water.

6.4 Reference to other sections: For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Material may be hot. 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 a dry place. Maintain an appropriate temperature to avoid crystallisation problems.

7.3 Specific end use(s):

Industrial., 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.

8.2 Exposure controls:**Appropriate engineering controls:**

No special precautions.

Individual protection measures, such as personal protective equipment:**Eye/face protection:**

If risk of splashing, wear safety goggles or face shield.

Skin protection:**Hand Protection:**

When material is heated, wear gloves to protect against thermal burns.

Other:

Wear suitable protective clothing.

Respiratory Protection:

No specific precautions.

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:**

Physical State:	Liquid
Form:	Viscous Liquid
Color:	Colorless
Odor:	Odorless
pH:	~ 5.7 at 50 %
Freezing point:	No data available.
Boiling Point:	> 105 °C
Flash Point:	> 200 °C
Flammability (solid, gas):	NC: Not Classified
Vapor pressure:	~ 17 hPa
Vapor density (air=1):	~ 0.7
Relative density:	~ 1.302
Solubility in Water:	Completely Soluble at 20 °C

Partition coefficient (n-octanol/water): -2.2 - Literature Reference -
Viscosity: Approx. 400 mPa.s 20 °C

9.2 Other information:

Conductivity: 47 µS/cm

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:** Solutions may become hazy, partially precipitate from solution, or gel with time on exposure to low temperature.
- 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 Syrups, hydrolyzed starch, hydrogenated	Rat	LD50 - Oral : > 5000 mg/kg No mortalities were reported during the study period.		- REACH data - Data from similar product.
OECD 423 D-glucitol	Mouse	LD50 - Oral : >2000 mg/kg No mortalities were reported during the study period.		- REACH data -

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 202 D-glucitol	Daphnia magna	LC50 : >1390 mg/l	48 h	- REACH data -
OECD 201 D-glucitol	Pseudokirchneriella subcapitata	EC50 : >1420 mg/l	72 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 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 authorised 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
NFPA Flammability Rating: 1
NFPA Instability Rating: 0
NFPA Special Hazard: No

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

Health hazard: 0
Flammability hazard: 1
Physical hazard: 0
Personal Protection: B

US. Toxic Substances Control Act (TSCA) :

Listed.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) :

Not listed

SARA Title III (Superfund Amendments and Reauthorization Act) :

Not 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.

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

Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EC50 : The effective concentration of substance that causes 50% of the maximum response.
OECD : Organisation for Economic Cooperation and Development
LC50 : lethal concentration 50%

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.