

## SAFETY DATA SHEET XYLISORB® 90 - XYLITOL - E967

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

#### 1.1 Product identifier:

**Product name:** XYLISORB® 90 - XYLITOL - E967

**Product No.:** 000000200368

**Synonyms:** Crystallized D-XYLITOL.

**Chemical name:** Xylitol

**CAS-No.:** 87-99-0

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

Identified uses:	Uses advised against:
Food., Pharmaceuticals., Cosmetics, personal care products., Intermediate.,	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:

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:

Dust may form an explosive mixture in the atmosphere.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance:

Chemical name	Concentration	CAS-No.
Xylitol	>=99%	87-99-0

### 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:** Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if symptoms occur.

**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. Dust may form an explosive mixture in the atmosphere. 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.

## 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., Cosmetics, personal care products., Intermediate.,

## 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	Type	Exposure Limit Values	Source
Dust - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Dust - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
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) (2000)
Dust - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

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

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

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

Wear dust-resistant safety goggles where there is danger of eye contact. (EN 166)

**Skin protection:**
**Hand Protection:**

No special precautions.

**Other:**

No specific recommendations. 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.

**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:**

<b>Physical State:</b>	solid
<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>pH:</b>	~ 5.3 at 50 %
<b>Melting Point:</b>	~ 95 °C
<b>Boiling Point:</b>	Not Applicable
<b>Flash Point:</b>	Not Applicable
<b>Vapor pressure:</b>	Not Applicable
<b>Vapor density (air=1):</b>	Not Applicable
<b>Relative density:</b>	~ 0.58
<b>Solubility in Water:</b>	Completely Soluble ~ 1,700 g/l at 20 °C
<b>Partition coefficient (n-octanol/water):</b>	-2.56 - Literature Reference -
<b>Explosive properties: - INERIS -</b>	
<b>Ignition Temperature:</b>	~ 440 °C (Godbert-Greenwald) MIT in Cloud. ~ 175 °C product in deposit.
<b>MIE (Minimum Ignition Energy):</b>	~ 360 mJ
<b>dP/dtmax (Maximum Rate of explosion Pressure rise):</b>	~ 315 bar/s (EN 14034-2)
<b>Pmax (Maximum Explosion OverPressure) ±10%:</b>	~ 6.4 bar (EN 14034-1)
<b>Kst value (±20%):</b>	~ 85 barm/s (EN 14034-2)
<b>Dust Explosion Class:</b>	st 1 (VDI 3673)
<b>Volume resistivity:</b>	> 10 <sup>9</sup> Ω.m (IEC 61241-2-2 / Group IIIB non-conductive dust.)
<b>Moisture:</b>	< 0.1 % (ISO 589)
<b>Mv (Median value):</b>	~ 70 µm (NFX 11-666)

## 9.2 Other information:

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Oxidizing agents.
<b>10.2 Chemical stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	No hazardous reactions under ordinary conditions of use and storage.
<b>10.4 Conditions to avoid:</b>	Prevent dust cloud. Dust clouds may be explosive under certain conditions. Avoid dust close to ignition sources.
<b>10.5 Incompatible materials:</b>	Strong oxidizing substances.
<b>10.6 Hazardous decomposition products:</b>	Carbon Monoxide. Carbon Dioxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

**Acute toxicity :**

Test / Substance	Species	Type / Result	Exposure	Remarks
Xylitol	Mouse	LD50 - Oral : >5000 mg/kg Not classified		- Literature Reference -
Xylitol	Rat	LD50 - Oral : >4000 mg/kg Not classified		- ECHA Database -
Xylitol	Rabbit	LD50 - Oral : >2000 mg/kg Not classified		- ECHA Database -

**Skin irritation. :**

Test / Substance	Species	Result	Exposure	Remarks
Xylitol	Rabbit	In vivo Not Irritating	4 h	- ECHA Database -

**Serious eye irritation :**

Test / Substance	Species	Result	Exposure	Remarks
QSAR Xylitol	Rabbit	In vivo Slightly irritating.		- ECHA Database -

**Sensitization :**

Test / Substance	Type	Species	Result	Remarks
Other Guideline. Xylitol	In vivo		Non-Sensitising	- ECHA Database -

**Repeated dose toxicity :**

Test / Substance	Species	Result	Exposure	Remarks
OECD 408 Xylitol	Rat	Negative	90 day(s)	- ECHA Database -

**Mutagenesis :**

Test / Substance	Type	Species	Result	Remarks
Ames Xylitol	In vitro	S. typhimurium	Negative	- Literature Reference -
Chromosomal aberration Xylitol	In vitro	Human lymphocytes.	Negative	- Literature Reference -
micronucleus test Xylitol	In vitro	Mouse	Negative	- Literature Reference -

**Carcinogenicity :**

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
Xylitol	Mouse	Oral 80 Week(s).	Negative	- Literature Reference -

**Reproductive toxicity :**

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
Xylitol	Rabbit	Oral 12 day(s)	No treatment related effects.	- Literature Reference -

**Remarks:**

The ingredients of this product are not classified as carcinogenic by the ACGIH, the CIRC, the OSHA or the NTP.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Acute toxicity:

Test / Substance	Species	Type/Result	Exposure	Remarks
QSAR Xylitol	Algae	EC50 : 75,546 mg/l Not classified	96 h	- ECHA Database -
OECD 203 Xylitol	Pimephales promelas	LC50 : 52,000 mg/l Not classified	48 h	- ECHA Database -
OECD 202 Xylitol	Ceriodaphnia	LC50 : 48,500 mg/l Not classified	48 h	- ECHA Database -

**Chronic Toxicity:** No data available.

### 12.2 Persistence and degradability:

Test / Substance	Result	Remarks
Other Guideline. Xylitol	95 % / 14 d The product is readily biodegradable.activated sludge (adaptation not specified) :100 mg/kg	- ECHA Database -
QSAR Xylitol	79.4 % / The product is readily biodegradable.	- ECHA Database -

### 12.3 Bioaccumulative potential:

Test / Substance	Log Pow (n-Octanol/Water Partition Coefficient)	Bioconcentration Factor (BCF) / Bioaccumulation	Remarks
Xylitol	-2.56	~ 3	This material is readily biodegraded and is not likely to bioconcentrate. - Literature Reference -

### 12.4 Mobility in soil:

Test / Substance	Medium	Organic Carbon Partition Coefficient (Koc)	Remarks
Xylitol	soil	~ 10	- 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: 0  
NFPA Instability Rating: 0  
NFPA Special Hazard: No

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

Health hazard: 0  
Flammability hazard: 0  
Physical hazard: 0  
Personal Protection: A

**US. Toxic Substances Control Act :**

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:**

JECFA : Joint FAO/WHO Expert Committee on Food Additives.  
REACH registration file.

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

LD50: lethal dose 50%

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

**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.