

According to directive 1907/2006/EC,2020/878
Version 1.0 Revision date: 09-09-2021
Trade name: Sorbitol

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

1.1 Product identification:

Product name: Sorbitol
REACH Number : not relevant (mixture)

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

Identified applications: Laboratory chemicals
Analytical and laboratory applications
Uses advised against: Not to be used for products in contact with food. Not to be used for private purposes (household).

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST sprl / A.S.O.W. sprl
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

This mixture does not meet the criteria for classification according to Regulation No 1272/2008/EC.

2.2 Labelling elements:

No hazard pictogram, no signal word, no hazard indication(s) and no safety recommendations required.

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

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SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Description of the mixture

Name	CAS no. EINECS no. Index number REACH Reg. no.	Classification	Quantity %
Deoxycholic acid sodium salt	302-95-4 206-132-7 - -	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 ATE 1,370 mg/kg (oral)	1,455

See SECTION 16 for the full text.

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General comments:

Remove contaminated clothing.

By inhalation:

Provide fresh air.

On skin contact:

Rinse/shower skin with water.

On eye contact:

Rinse gently with water for several minutes.

If swallowed:

Rinsing the mouth.

If you feel unwell, consult a doctor.

4.2 Main acute and delayed symptoms and effects:

No symptoms and effects are known so far.

4.3 Indication of immediate medical attention and special treatment required:

No further relevant information available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Match fire-fighting measures to environment.

Water, foam, alcohol-resistant foam, dry extinguishing powder, ABC powder.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture:

Flammable.

Hazardous combustion products:

In case of fire, it can produce: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂),

Can produce toxic carbon monoxide fumes in case of fire.

5.3 Advice for firefighters:

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

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SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services:

Combating dust formation.

6.2 Environmental precautions:

Avoid getting the product into drains, surface water or groundwater.

6.3 Methods and materials for containment and cleaning:

Advice on how to contain the spill:

Covering drains.

Mechanical recording.

Advice on how to clean up the spill:

Mechanical recording.

Other information relating to discharge or release:

Put into suitable retainers for disposal.

Ventilate the affected area.

6.4 Reference to other sections:

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Instructions for disposal: see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

No special measures are necessary.

Advice on general occupational hygiene:

Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including incompatibilities:

Store in a dry place.

Incompatible substances or mixtures:

Note advice for chemical storage.

Consideration of other advice:

Ventilation requirements

Use of local and general ventilation:

Specific designs for storage rooms or vessels

Recommended storage temperature:

15 - 25 °C

7.3 Specific end use:

No information is available.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits

Occupational exposure limits (occupational exposure limits):

Country	Substance name	Identification	TGG 8 hours (mg/m ³)	TGG 15 min	Notation	Source
BE	particles not elsewhere classified	VL/VCD	10		I	Moniteur Belge
BE	particles not elsewhere classified	VL/VCD	3		R	Moniteur Belge

Notation:

CW Ceiling value is a limit value that may not be exceeded (ceiling value)
I: Inhalable fraction
R: Respirable fraction

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TGG 15 min: Short-time value (short-term exposure limit): limit that may not be exceeded and which applies, for a period of 15 minutes (unless otherwise stated)

TGG 8 hours: Time-weighted average (long-term exposure limit): measured or calculated from an eight-hour reference period (unless otherwise stated)

8.2 Exposure control measures:

Individual protection measures (personal protective equipment)

Eye/face protection:

Wear safety goggles with side protection.

Skin protection:

Hand protection

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

Type of material

NBR (nitrile rubber)

Material thickness

>0.11 mm

Breakthrough time of glove material

>480 minutes (permeation level: 6)

Other protective equipment

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Respiratory protection:

Respiratory protection is necessary in case of: Dust generation.

Particle filter (EN 143). P1 (filters at least 80% of air particles, colour code: white).

Managing environmental exposure:

Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	solid
Colour:	beige
Odour:	characteristic
Melting/freezing point:	undetermined
Boiling point or initial boiling point and boiling range:	undetermined
Flammability:	this material is flammable, but will not easily catch fire
Lower and upper explosion limit:	not determined
Flash point:	not applicable
Self-ignition temperature:	undetermined
Decomposition temperature:	irrelevant
pH value:	6,9 - 7,3
Kinematic viscosity:	irrelevant

Solubility(s)

Solubility in water: miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure: undetermined

Density: undetermined

Relative vapour density: no information available for this property

Particle characteristics: No data available.

Other safety parameters

Oxidising properties: none

9.2 Other information

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Information on physical hazard classes: hazard classes in accordance with GHS
(physical hazards): irrelevant
Other safety features:
Miscibility: fully miscible with water

SECTION 10: Stability and reactivity

10.1 Reactivity:

The product in its delivered form is not capable of causing a dust explosion, however the enrichment of fine dust leads to a dust explosion hazard.

10.2 Chemical stability

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

10.3 Possible hazardous reactions

Violent reaction with: strongly oxidising

10.4 Conditions to avoid

No specific conditions are known to be avoided.

10.5 Incompatible materials

There is no further information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

No test data for the mixture as a whole are available.

Classification procedure

The method of classification of mixtures based on the components of the mixture (sum formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification according to Regulation No 1272/2008/EC.

Acute toxicity

Cannot be classified as acutely toxic.

Acute toxicity estimate (ATE) of components in the mixture

Name of substance	CAS No	Route of exposure	ATE
Deoxycholic acid sodium salt	302-95-4	Oral	1,370 mg/kg

Acute toxicity of components in mixture

Name of substance	CAS No	Route of exposure	End point	Value	Species
Deoxycholic acid sodium salt	302-95-4	Oral	LD50	1,370 mg/kg	Rat

Skin corrosion/irritation

Is not classifiable as corrosive/irritating to the skin.

Serious eye damage/eye irritation

Cannot be classified as severely eye-injurious or irritating to the eyes.

Respiratory/skin sensitisation

Is not classifiable as an inhalant or skin allergen.

Mutagenicity in gametes

Is not classifiable as mutagenic in germ cells (mutagenic).

Carcinogenicity

Is not classifiable as carcinogenic.

Reproductive toxicity

Is not classifiable as a reproductive toxicant.

Specific target organ toxicity at single exposure

Cannot be classified as toxic to specific target organs (single exposure).

Specific target organ toxicity on repeated exposure

Cannot be classified as toxic to specific target organs (repeated exposure).

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Inhalation hazard

Is not classifiable as dangerous in aspiration.

Symptoms related to physical, chemical and toxicological properties

After swallowing

No data are available.

In case of contact with eyes

No data are available.

After inhalation

No data are available.

On contact with skin

No data are available.

Other information

Health effects are not known.

11.2 Endocrine disrupting properties

None of the ingredients are listed.

11.3 Information on other hazards

There is no further information.

SECTION 12: Ecological information

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

Biodegradation

No data are available.

12.2 Process of degradability

No data are available.

12.3 Bioaccumulation

No data are available.

12.4 Mobility in soil:

No data are available.

12.5 Results of PBT and vPvB assessment

No data are available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

No data are available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Product

For waste disposal, contact the responsible authorised waste disposal company.

Information regarding wastewater discharge

Do not throw waste into the sink.

Relevant provisions on waste prevention

The allocation of the waste key numbers/waste markings is to be made industry- and process-specific in accordance with AVV. Abfallverzeichnis-Verordnung (waste catalogue regulation, Germany).

Comments

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

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SECTION 14: Information relating to transport

14.1 UN number

The transport of this substance is not subject to regulations.

14.2 Proper cargo name according to UN model regulations

The transport of this substance is not subject to regulations.

14.3 Transport hazard class(es)

The transport of this substance is not subject to regulations.

14.4 Packing group

The transport of this substance is not subject to regulations.

14.5 Environmental hazards

The transport of this substance is not subject to regulations.

14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Notes: Not applicable for product as supplied.

14.8 Information for each of the UN regulations

Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to the IMDG.

International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Statutory information

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

Relevant European Union (EU) provisions

Restrictions in accordance with REACH, Annex XVII

none of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the components is listed. (Or Concentration of the substance in the mixture: <0.1 % Mass concentration)

Seveso Directive 2012/18/EU (Seveso III)

No.	Hazardous substance/hazard categories	Thresholds (tonnes) for application of requirements for lower and upper-tier establishments	Nuts
	Not allocated		

Decopaint Directive

VOC content: 0 %

Directive on industrial emissions (IE Directive)

VOC content: 0 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water framework directive (WFD)

List of pollutants (WFD)

Name of substance	Name according to inventory	CAS No.	Included in	Comments
Deoxycholic acid sodium salt	Metals and metal compounds		A)	

Legend

A) Indicative list of the main pollutants

Regulation on marketing and use of explosives precursors

none of the ingredients are listed

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Regulation on drug precursors

none of the ingredients are listed

Regulation on ozone-depleting substances

none of the ingredients are listed

Regulation on export and import of dangerous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POPs)

none of the ingredients are listed

Other information

Directive 94/33/EC on the protection of young people at work.

Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	List	Status
AU	AICS	not all ingredients are listed
CA	DSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	not all ingredients are listed

Legend

AICS:	Australian Inventory of Chemical Substances
CICR:	Chemical Inventory and Control Regulation
CSCL-ENCS:	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL:	Domestic Substances List (DSL)
ECSI:	EC inventory (EINECS, ELINCS, NLP)
IECSC:	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ:	National Inventory of Chemical Substances
ISHA-ENCS:	Inventory of Existing and New Chemical Substances (ISHA-ENCS).
KECI:	Korea Existing Chemicals Inventory
NZIoC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg:	REACH registered substances
TCSI:	Taiwan Chemical Substance Inventory
TSCA:	Toxic Substance Control Act

15.2 Chemical safety assessment:

Chemical safety assessments for substances in this mixture were not performed.

SECTION 16: Other information

Abbreviations and acronyms

Abbreviation	Descriptions of abbreviations used
Acute Tox. :	Acute toxicity
ADN :	Accord européen relatif au transport internationale des marchandises Dangereuses par voies de navigation Intérieures (European Agreement concerning the international carriage of dangerous goods by inland waterways)

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ADR :	Accord relatif au transport internationale des marchandises Dangereuses par route (Agreement concerning the international carriage of dangerous goods by road)
ATE:	Acute toxicity estimate
CAS:	Chemical Abstracts Service (database for chemicals and their unique number, the CAS registration number)
catalogue no.:	The catalogue number is the identifier used in Part 3 of Annex VI to Regulation (EC) No 1272/2008
CLP:	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures.
CW:	Ceiling value (ceiling value)
DGR:	Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR
EC No:	The EC register (EINECS, ELINCS and the NLP register) is the source for the seven-digit EC number as a prefix for substances (European Union)
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances
Eye Dam:	Causes serious eye damage
Eye Irrit:	Irritating to eyes
GHS:	"Globally Harmonised System of Classification and Labelling of Chemicals", developed by the United Nations
IATA:	International Air Transport Association
IATA/DGR:	Dangerous Goods Regulations (DGR) for aviation (IATA)
ICAO:	International Civil Aviation Organisation.
IMDG:	International Maritime Dangerous Goods Code (IMDG code)
LD50:	Lethal dose 50 %: the LD50 corresponds to the dose of a tested substance at which 50 % of the test subjects die during a specified time interval
Moniteur Belge:	Royal Decree amending the Royal Decree of 11 March 2002 on the protection of the health and safety of workers from the risks of chemical agents at work
NLP:	No-Longer Polymer
PBT:	Persistent, Bioaccumulative and Toxic
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID :	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the international carriage of dangerous goods by rail)
Skin Corr:	Skin corrosive
Skin Irrit:	Skin Irritant
STOT SE:	Specific target organ toxicity by single exposure
SVHC:	Substance of very high concern
TGG 15 min:	Short-time value
TGG 8 hours:	Time weighted average
VOCS:	Volatile organic compounds
vPvB:	Very persistent and very bioaccumulative

Key literature references and data sources

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.
Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

Classification procedure

Physical and chemical properties.

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The classification is based on the results of the tested mixtures.

Health hazards.

Environmental hazards.

The method of classification of mixtures based on the components of the mixture (sum formula).

List of relevant sentences (code and full text as mentioned in chapters 2 and 3).

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes severe eye irritation.

H335 May cause respiratory tract irritation.

Disclaimer

This information is based on the current state of our knowledge.

This safety data sheet is compiled and intended exclusively for this product.

Safety data sheet in accordance with Regulation (EC) No 1907/2006 (REACH) Sorbitol MacConkey Agar ISO 11133, ISO 16654 for microbiology.

Belgium