

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended 2015/830.

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

1.1 Product identifier

Product name:	Sucrose
Product No.	1397, 3844, 3845, 4005, 4072, 4074, 4097, 6321, 7723, 7724, 8360, L380, 37726
Synonyms, Trade Names:	Saccharose, Sugar
Additional identification	
Chemical name:	Sucrose
Chemical formula:	C ₁₂ H ₂₂ O ₁₁
INDEX No.	-
CAS-No.	57-50-1
EC No.	200-334-9
REACH Registration No.	

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

Identified uses: For Laboratory, Research or Manufacturing Use.

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Avantor Performance Materials Poland S.A.
Sowinskiego 11str., 44-101 Gliwice,
Poland

Telephone: 48 32 239-20-00
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Contact person: Product Information Compliance
E-mail: export@avantormaterials.com

E-mail address of person responsible for this SDS: SDS@avantormaterials.com

1.4 Emergency telephone number: CHEMTREC: (44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements Not applicable

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Sucrose	50 - <100%	57-50-1	200-334-9	No data available.	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

SECTION 4: First Aid Measures

General: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTRE/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation to skin, eyes and respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting Measures

General Fire Hazards: Dust may form explosive mixture with air.

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters: 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:** Keep unauthorised personnel away. Keep upwind. Avoid inhalation of dust. Ventilate closed spaces before entering them. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.
- 6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or on to the ground.
- 6.3 Methods and material for containment and cleaning up:** Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
- 6.4 Reference to other sections:** No data available.

SECTION 7: Handling and Storage:

- 7.1 Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. All handling to take place in well-ventilated area. Avoid generation and spreading of dust. Avoid inhalation of dust. Ground container and transfer equipment to eliminate static electric sparks. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use non-sparking hand tools and explosion-proof electrical equipment. Wash thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Store in a well-ventilated place. Store in a dry place.
- 7.3 Specific end use(s):** No data available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Sucrose	TWA	10 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (2007)
	STEL	20 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (2007)

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection:	Use tight fitting goggles if dust is generated.
Skin protection	
Hand Protection:	Material: Wear protective gloves.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Provide eyewash station and safety shower.
Environmental Controls:	No data available.

SECTION 9: Physical And Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	Crystals or powder
Colour:	White
Odour:	Odorless
Odour Threshold:	No data available.
pH:	No data available.
Melting Point:	185,5 °C
Boiling Point:	No data available.
Flash Point:	Not applicable
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability limit - upper (%)	No data available.
Flammability limit - lower (%)	No data available.
Vapour pressure:	No data available.
Vapour density (air=1):	No data available.
Density:	1,59 g/cm ³ (20 °C)
Relative density:	1,59 (20 °C)
Solubility(ies)	
Solubility in Water:	2.120 g/l (25 °C)
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	-3,70
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidising Properties:	No data available.

9.2 Other information

Molecular weight:	342,3 g/mol (C ₁₂ H ₂₂ O ₁₁)
Dust Explosion Description Number	138 m.b./s
Kst:	
Minimum ignition energy:	100 mJ

SECTION 10: Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
10.4 Conditions to Avoid:	Heat, sparks, flames. Dust clouds may be explosive under certain conditions.
10.5 Incompatible Materials:	Strong oxidising agents. Inorganic peroxides.
10.6 Hazardous Decomposition Products:	Thermal decomposition may release oxides of carbon.

SECTION 11: Toxicological Information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No adverse effects due to ingestion are expected.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	LD 50 (Rat): 29.700 mg/kg
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Dermal

Product:	No data available.
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Inhalation

Product:	No data available.
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Repeated dose toxicity

Product:	None known.
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Skin Corrosion/Irritation:

Product:	No data available.
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Serious Eye Damage/Eye Irritation:

Product:	No data available.
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Respiratory or Skin Sensitisation:

Product:	No data available.
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Germ Cell Mutagenicity

In vitro

Product:	No mutagenic components identified
In vivo Product:	No mutagenic components identified
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
Reproductive toxicity Product:	No components toxic to reproduction
Specific Target Organ Toxicity - Single Exposure Product:	None known.
Specific Target Organ Toxicity - Repeated Exposure Product:	None known.
Aspiration Hazard Product:	Not classified
Other Adverse Effects:	None known.

SECTION 12: Ecological Information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Sucrose No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Sucrose No data available.

Chronic toxicity

Fish

Product: No data available.

Specified substance(s)

Sucrose No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Sucrose No data available.

Toxicity to aquatic plants

Product: No data available.

Specified substance(s)

Sucrose No data available.

12.2 Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

Specified substance(s)

Sucrose No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Sucrose No data available.

12.3 Bioaccumulative Potential

Product: No data available on bioaccumulation.

Specified substance(s)

Sucrose No data available.

12.4 Mobility in Soil:

Known or predicted distribution to environmental compartments The product is water soluble and may spread in water systems.

Sucrose No data available.

12.5 Results of PBT and vPvB assessment:

Sucrose Not available.

Sucrose No data available.

12.6 Other Adverse Effects:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.7 Additional Information:

No data available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

SECTION 14: Transport Information

ADR

14.1 UN Number: Not regulated.

14.2 UN Proper Shipping Name: Not regulated.

14.3 Transport Hazard Class(es)

Class: Not regulated.

Label(s): Not regulated.

Hazard No. (ADR): Not regulated.

Tunnel restriction code: Not regulated.

14.4 Packing Group: Not regulated.

14.5 Environmental Hazards: Not regulated.

14.6 Special precautions for user: Not regulated.

RID

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IMDG

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
EmS No.:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

Not regulated.

IATA

14.1 UN Number:	Not regulated.
14.2 Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

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:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006 REACH Annex XIV Substance subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 2012/18/EU (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other Information

Revision Information: Not relevant.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
vPvB vPvB: very persistent and very bioaccumulative substance.

Key literature references and sources for data: Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.

Wording of the H-statements in sections 2 and 3: none

Training information: No data available.

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