

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

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

1.1 Product identifier

Trade name : **Crystalline sugar**
white sugar, refined sugar, powdered sugar
Crystalline sugar is available in various variants and particle sizes

Substance name : sucrose

CAS-No. : 57-50-1

EC-No. : 200-334-9

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

Use of the Sub-
stance/Mixture : Foodstuff

1.3 Details of the supplier of the safety data sheet

Company : Südzucker AG
Maximilianstraße 10
68165 Mannheim, DE

E-mail address : info-MSDS@suedzucker.de

Telephone : +496214210

Telefax : +49621421393

E-mail address of person
responsible for the SDS : CRDS EHS / chemicals management
(*info-msds@suedzucker.de*)

1.4 Emergency telephone number

: +496214210 (Mo-Fr: 8 a.m. - 3 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

Since the substance or preparation doesn't meet the criteria of Article 31 of the REGULATION (EC) No 1907/2006 (REACH), a Safety Data Sheet is legally not required.

2.3 Other hazards

Dust may form explosive mixture with air.

This substance/mixture contains no components considered to be either 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 components considered 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 levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered 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 levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No. : 200-334-9

Synonyms : beet sugar, cane sugar

Chemical nature : Natural product
crystalline sucrose, > 99 %

Components

Remarks : No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : The product is not toxic.

If inhaled : Fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off with plenty of water.

In case of eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.

If swallowed : No hazards which require special first aid measures.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

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
Carbon dioxide (CO₂)
Foam
Dry powder

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Combustible material. Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products : Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Take up dry (mechanical). Forward for disposal. Clean up affected area. Avoid dust formation.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation. Do not breathe dust.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

Advice on protection against fire and explosion : Take precautions against dust explosion. Keep workplaces clean, avoid dust accumulation. Keep away from sources of ignition - No smoking. Observe explosion protection regulations!

Hygiene measures : Wash hands before breaks and at the end of workday.

Dust explosion class : St1

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in a dry place. Protect from moisture.

Further information on storage conditions : Storage temperature: no restrictions.

7.3 Specific end use(s)

Specific use(s) : This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
sucrose	57-50-1	TLV 8 hr	10 mg/m ³	Belgium. Occupational exposure limit values
		VLA-ED	10 mg/m ³	Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values
		VME	10 mg/m ³	France. Occupational Exposure Limits (INRS)
		TWA	10 mg/m ³	UK. EH40 WEL - Workplace Exposure Limits
		OELV - 8 hrs (TWA)	10 mg/m ³	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles
(in case of dust exposure)

Hand protection : not required

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

Respiratory protection : Respirator must be worn if exposed to dust.
Suitable mask with particle filter P1 (EN 143)

Protective measures : Do not breathe dust.
When using do not smoke.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : colourless to white

Odour : product-typical

Melting point/range : ca. 188 °C

Boiling point/boiling range : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : Dust may form explosive mixture with air.

30 g/m³
(*< 25 µm median grain size*)

60 g/m³
(*25 µm median grain size*)

60 g/m³
(*80 µm median grain size*)

500 g/m³
(*300 µm median grain size*)

40 - 100 g/m³
(*grainsize: 70 % < 250 µm*)

Flash point : Not applicable

Minimum ignition temperature : > 310 °C

pH : ca. 6 (20 °C)
Concentration: 100 g/l

Viscosity, kinematic : Not applicable

Water solubility : ca. 885 g/l (20 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

Partition coefficient: n-octanol/water	:	log Pow: -3,67 Method: (literature)
Vapour pressure	:	Not applicable
Bulk density	:	ca. 450 - 950 kg/m ³
Particle Size Distribution	:	For further details on particle size/particle size distribution, see the corresponding product information.

9.2 Other information

Explosive properties	:	Not explosive May form explosive dust-air mixture during processing, handling or other means.
Flammable solids Burning number	:	2
Self-ignition	:	Not applicable
Dust explosion class	:	St1
Minimum ignition energy	:	Median - MIE (with inductance) - MIE (without inductance) 17µm - < 5 mJ - 5 - < 10 mJ 30 µm - < 10 mJ - < 10 mJ 36 µm - 30 - < 100 mJ 110 µm - > 1000 mJ - > 100 mJ 275 µm - 100.000 - < 1.000.000 mJ 300 µm - > 1.000.000 mJ

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Like most organic material in powder form, the product can form explosive dust-air mixtures when finely dispersed in air.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.
Strong heating (decomposition).
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Protect from moisture.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents,

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : LD50: Assessment: The substance or mixture has no acute oral toxicity
Expert judgement

Skin corrosion/irritation

Product:

Assessment : No skin irritation

Serious eye damage/eye irritation

Product:

Assessment : No eye irritation
Mechanical irritation of the eyes is possible.

Respiratory or skin sensitisation

Product:

Result : No sensitizing effects known.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

Carcinogenicity

Product:

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

STOT - single exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Product:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered 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 levels of 0.1% or higher.

Further information

Health injuries are not known or expected under normal use.
Allergic reactions are not known to occur.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 : No data available

12.2 Persistence and degradability

Biodegradability : Biodegradable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version 7.1
Revision Date: 02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

Mobility : No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered 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 levels of 0.1% or higher.

12.7 Other adverse effects

We have no quantitative data concerning the ecological effects of this product.
Ecological injuries are not known or expected under normal use.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Product in solid state can be disposed e.g. as commercial waste.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.:

Not applicable

Water contaminating class : nwg not water endangering
(Germany) Classification according to AwSV, §3 Abs. 3

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

BE OEL / TLV 8 hr : Long term exposure limit
ES VLA / VLA-ED : Environmental Daily Limit Value
FR VLE / VME : Time Weighted Average
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Crystalline sugar

Version
7.1

Revision Date:
02.02.2022

Date of last issue: 11.11.2021
Date of first issue: 11.12.2019

Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : Please note:
(DE) BGN / BG RCI: "Guideline for the avoidance of Dust explosions during the extraction and processing of sugar" with additions to pulp and pellet dust

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REG_EU / EN