

SAFETY DATA SHEET

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

1.1. Product identifier

Reference No: ISM-HSD-002

ID No: 10274A

Product name: **Granulated and screened sugars**

Other means of identification: Sugar, table sugar, beet and cane sugar, saccharose, sucrose

REACH registration number: Not Applicable. For uses as described this material is exempt from the requirement to register under REACH.

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

Food ingredient

1.3. Details of the supplier of the safety data sheet

Company: British Sugar PLC, **Samson Place** Peterborough,
PE7 8QJ, England
Telephone: +44 (0)1733 563171
E-mail: quality@britishsugar.com

1.4. Emergency telephone number

Emergency telephone No.: ++44 (0)1733 563171

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous/hazardous according to Regulation (EC) No 1272/2008 and Directive 67/548/EEC

2.2. Label elements

None required according to Regulation (EC) No 1272/2008.

2.3. Other hazards

Dust in air mixture can be explosive

SECTION 3: Composition/information on ingredients

Composition: Sucrose >90%

CAS number: 57-50-1

Molecular formula: $C_{12}H_{22}O_{11}$ = 342.30 g/mol

EC-No.: 200-334-9

SECTION 4: First aid measures

4.1. Description of first aid measures

- Eye contact: Irrigate thoroughly with clean water. If discomfort persists obtain medical attention.
- Inhalation: Remove from exposure.
- Skin contact: Wash off thoroughly with soap and water. If irritation develops, obtain medical attention.
- Ingestion: Wash out mouth thoroughly with water if necessary.

4.2. Most important symptoms and effects, both acute and delayed

- After inhalation of dust: Irritation of the mucous membranes, coughing, and shortness of breath.
- After eye contact: Slight irritation.
- After skin contact: Slight irritation. Prolonged contact could lead to industrial dermatitis
- After ingestion: Ingestion of sugar in moderate amounts poses no acute toxic problems unless the person is a diabetic.

Further hazardous properties cannot be excluded.

4.3. Indication of any immediate medical attention and special treatment needed

No special treatment required. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Water spray or other media as available.

5.2. Special hazards arising from the substance or mixture

Combustible.
Dust explosion possible in some circumstances.

5.3. Advice for firefighters

Exercise caution when fighting any fire. Only trained personnel should attempt to tackle a fire. Do not stay in dangerous zone without personal and respiratory protective equipment. Prevent fire fighting water entering watercourses or ground-water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing. Avoid generation of dusts.

6.2. Environmental precautions

Do not allow to enter sewerage system as the substance has a high BOD/COD.

6.3. Methods and material for containment and cleaning up

Carefully sweep up. Transfer to suitable containers for recovery or disposal.
Wash site of spillage thoroughly with detergent and water.

6.4. Reference to other sections

See Section 8 for advice on protective equipment and Section 13 for recommendations on disposal

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid sources of ignition

All tankers should be earthed during delivery.

A 25mm or 35mm multi-stranded flexible cable should be provided by the customer and be securely bolted to earthed steelwork (or other appropriate earth) in the vicinity of the delivery point. The cable should be of adequate length, with a crocodile clip on the free end, available for the tanker driver to attach to the vehicle. The integrity of the earth, on the customer site, should be tested on a regular basis, using an appropriate electrical meter

Avoid generation of dusts.

The need to use LEV should be assessed.

Sugar handling systems should conform to HSE guidance.

Wash hands and face after working with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool dry conditions (10 to 20°C, <65% relative humidity recommended). Store away from direct sunlight, draughts and sources of ignition.

7.3. Specific end use(s)

Food ingredient

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

WEL - Sucrose:

Long term: 10 mg/m³ Short term: 20 mg/m³

8.2. Exposure controls

As appropriate to the situation and the quantity handled.

- Respirator: filter P 1 (acc. to DIN 3181) for solid particles of inert substances if dusts are generated.
- Ventilation: Local exhaust ventilation may be necessary depending on conditions of use.
- Gloves: Rubber or plastic gloves are advised in cases of prolonged or regular contact.
- Eye Protection: Eye protection may be necessary if dusts are generated.
- Other Precautions: Overalls - if handling large quantities

Environmental exposure controls:

Do not allow large quantities to enter drains, or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Form:	solid
Colour:	colourless to white
Odour:	odourless
Odour threshold:	Not applicable
pH value:	~7 (100g/l in water, 20°C)
Melting temperature:	160-187°C (decomposition)
Boiling temperature:	No data available
Evaporation rate:	Not applicable
Density: (g/ml)	1.59 (25°C)
Bulk density:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Solubility in water:	Very soluble (~2000g/l, 20°C)
Flash point:	Not applicable
Flammability:	No data available
Explosion limits: lower:	150g/ m ³
Auto-ignition temperature:	No data available
Decomposition temperature:	>160°C
Log P(o/w):	-3.7
Viscosity:	Not applicable
Explosive properties:	Dust explosion possible
Oxidising properties:	None

9.2. Other information

Additional data:	Ignition temperature of dust cloud	320°C
	Ignition temperature of dust layer	300°C
	Minimum spark energy for dust cloud ignition	5mJ
	Minimum explosion pressure	9.5bar
	KST value	135 bar/ ms ⁻¹

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Violent reactions possible with: strong oxidizing agents, nitric acid, concentrated sulphuric acid (risk of explosion!).

The possibility of reaction with other substances cannot be excluded.

10.4. Conditions to avoid

Date of issue 28/10/2020

Issue: Rev. 6

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

LD50 29700 mg/kg oral, rat.

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitisation:

No data available

Germ cell mutagenicity:

Available data does not lead to classification for this end point

Carcinogenicity:

No data available

Reproductive toxicity:

Available data does not lead to classification for this end point

STOT-single exposure:

No data available

STOT-repeated exposure:

No data available

Aspiration hazard:

No data available

Further toxicological information

None

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

Biological degradability: moderate.

*BOD*_{35 d}: 24% ThOD in seawater/inoculum: enrichment cultures of hydrocarbon-oxidizing bacteria
ThOD: 1.12

Date of issue 28/10/2020

Issue: Rev. 6

12.3. Bioaccumulative potential

Bioaccumulation potential: low (Log Pow <2).

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Remarks:

Do not allow large quantities to enter drains, or watercourses.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of through an authorised waste contractor to a licensed site, or contact your local waste disposal authority, or British Sugar Technical Department. Contaminated product may be classified as hazardous or special waste, and as such would be covered by regulations which vary according to location.

Dispose of packaging through an authorised waste contractor.

SECTION 14: Transport information

14.1. UN number

Not subject to transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Date of issue 28/10/2020

Issue: Rev. 6

SECTION 15: Regulatory information

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

Regional Regulations

Compiled according to Regulation (EU) 453/2010

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations and the Dangerous Substances and Explosive Atmospheres (DSEAR) Regulations.

For details of other generally applicable Legislative/Regulatory Instruments, you should contact your National Helpdesk.

A list of those Helpdesks may be found at http://echa.europa.eu/help/nationalhelp_contact_en.asp

15.2. Chemical safety assessment

Not available

SECTION 16: Other information

Revision.

Supersedes: Rev.27/10/2017

Reason for alteration: Review/Address change.

References

HSE Information Sheet Ref. NIS/21/02 Food sheet No 2

Source information

Registry of Toxic Effects of Chemical Substances (RTECS)

International Chemical Safety Cards

Supplier SDS

In-house data

The Merck Index (11th Edition)

Dictionary of Substances and Their Effects (DOSE, 3rd Electronic Edition)

Sax's Dangerous Properties of Industrial Materials (11th edition) volumes 1-3

Patty's Toxicology (5th Edition) volumes 1-8

Handbook of Environmental Data on Organic Chemicals (4th Edition)

Bretherick's Handbook of Reactive Chemical Hazards, volumes 1-2 (7th edition)