

Safety Data Sheet Sugar



Date of revision: 24-03-2013

1. Identification of the substance or mixture and of the company/undertaking

Product identifier:

Sugar
EC-No: 200-334-9

Use:

Main use: Sugar is used as a sweetener in foods and as a raw material in the biochemical and chemical industry.
Uses advised against: None known.

Supplier:

Suiker Unie
Noordzeedijk 113
4671 TL Dinteloord
The Netherlands
telephone: +31 (0)165 – 525 006 (office hours)
e-mail: customerservice@suikerunie.com

Emergency telephone numbers:

Suiker Unie +31 (0)165 – 525 001 (office hours)
+ 31(0)165 – 525 003 (24-7)

2. Hazards identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008: Sugar is not classified as hazardous.
Council Directive 67/548/EEC: Sugar is not classified as hazardous.

Label elements:

None.

Other hazards:

Can cause dust clouds creating the possible hazard of dust explosion.

3. Composition and information on ingredients

Refined crystallised sugar with a minimum polarisation of 99.7%.

EC-no: 200-334-9
CAS number: 57-50-1

4. First aid measures

Description of first aid measures:

General advice:	No risks that require special first aid measures.
Contact with eyes:	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists consult a specialist.
Contact with skin:	Wash hands with soap in plenty of water.
Ingestion:	No hazards requiring first aid.
Inhalation:	Expose to fresh air.

Safety Data Sheet Sugar

Date of revision: 24-03-2013

Most important symptoms and effects, both acute and delayed:

No acute or delayed symptoms or effects observed.

Indication of immediate medical attention and special treatment needed:

Remarks for the doctor: treat symptomatically.

5. Firefighting measures

Extinguishing media:

Suitable extinguishing media: Water, foam and powder. Use extinguishing media that are suitable for the local conditions and environment.

Extinguishing media that cannot be used for safety reasons: None.

Special hazards arising from the substance or mixture:

In the event of dust formation contact with heat or fire can cause dust explosion.

Advice for firefighters:

Wear self-contained respirator and protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No personal precautions necessary. Avoid dust formation in connection with possible explosion hazard.

Environmental precautions:

Avoid release of sugar in surface water.

Methods and material for containment and cleaning up:

Place in suitable containers for removal, or as processing stock. Rinse area with water.

Reference to other sections:

See sections 8 and 13.

7. Handling and storage

Precautions for safe handling of the substance or mixture:

Use according to good industrial hygiene and safety practices. Avoid dust formation. When loading and unloading bulk lorries, the lorries must be earthed.

Conditions for safe storage, including any incompatible products:

Relative humidity approx. 60% and ambient temperature 10 to 30° C. Do not store in the vicinity of strong oxidising substances. Avoid microbiological contamination and contact with water. Dust extraction areas must have provisions for preventing static accumulation.

8. Exposure controls/personal protection

Control parameters:

Sugar contains no relevant levels of substances with limit values which should be controlled in the working environment.

Safety Data Sheet Sugar



Date of revision: 24-03-2013

Safety Data Sheet Sugar

Date of revision: 24-03-2013

Measures to control exposure:

Personal protection:

- Eyes/face: Wear protective goggles.
- Hands: Wear protective gloves for prolonged or repeated contact.
- Body: Wear suitable, protective work clothing.
- Respiration: The working environment should be well ventilated.

Hygiene measures:

Use according to good industrial hygiene and safety practices.

Environmental exposure:

Avoid dust formation. Avoid release of sugar in surface water.

9. Physical and chemical properties

Information on basic physical and chemical properties:

- Appearance: solid substance, crystalline
- Colour: white
- Odour: none
- Solubility: clear in water (67.3% at 25 °C)
- Melting point: 186 °C ± 4 °C
- Grading: dependent on sugar sort (stated in the product specification)
- Sugar content: minimum 99.9%

Explosion properties (indicative):

Size (micron)	<25	110	300
Dust explosion class	1		
Maximum explosion pressure (bar)	9		4
Explosion factor (bar.m/s)	140		12
Lower explosion limit (g/m ³)	30	60	500
Minimum ignition temperature (°C)	350		
Glow temperature 5 mm (°C)	420		
Burning number	2		
Minimum ignition energy (mJ)	5	>1000	>100.000
Melting point (°C)	169		

10. Stability and Reactivity

Reactivity:

Under normal conditions no reactivity hazard.

Chemical stability:

Under normal conditions chemically stable. Avoid micro-biological contamination and contact with water.

Possibility of hazardous reactions:

Under normal conditions no hazardous reactions known.

Conditions to avoid:

Avoid static electricity discharge and hot surfaces if sugar dust present.

Incompatible materials:

Under normal conditions no incompatible materials with sugar are known.

Safety Data Sheet Sugar

Date of revision: 24-03-2013

Hazardous decomposition products:

If heated to high temperatures sugar decomposes into carbon dioxide and water.

11. Toxicological information

Information on toxicological effects:

Skin:	No known effect
Eyes:	No known effect
Inhalation:	Not applicable
Ingestion:	No health hazard

With normal usage the product has no hazardous effects on health.

12. Ecological information

Toxicity:

Sugar degrades biologically in surface water. Overdosing diminishes the oxygen content so that anaerobic conditions can occur.

Persistence and degradability:

Sugar is biodegradable.

Bioaccumulative potential:

Bioaccumulation is improbable under normal conditions.

Mobility in soil:

Not applicable.

Results of PBT and vPvB assessment:

Not applicable.

Other adverse effects:

No data available.

13. Disposal considerations

Waste treatment methods:

Avoid the release of sugar into the sewer and the environment. Clean all equipment with water and normal cleansing agents.

14. Transport information

No risk of hazard during transportation.

The product does not fall under the Council Directives: IMDG (sea), ADR 94/55/EG (road), RID 96/49/EG (rail), ICAO/IATA (air).

15. Regulatory information

No statutory, obligatory information necessary.

Date of revision: 24-03-2013

16. Other information

In respect of the previous version, this data sheet has been fully revised and is in accordance with Council Directive (EC) No 1907/2006, annex II.

The information in this safety data sheet is based on the properties of this product to the extent that these were known to Suiker Unie at the time of compiling this document. This data sheet is intended to provide information for the assessment of the occupational hygiene and safety conditions under which sugar products are transported, stored and used. Suiker Unie bears no responsibility for such an assessment. This document is not intended for quality purposes.