

Safety Data Sheet Sugar



Date of revision: 15-09-2020

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

1.1 Product identifier

Product name Sugar
Chemical name Saccharose
CAS-Nr 57-50-1
EG-Nr 200-334-9

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

Recommended uses Food, Raw material for (bio)chemical processes.
Uses advised against No information available.

1.3 Details of the supplier of the safety data sheet

Cosun Beet Company
Noordzeedijk 113
4671 TL Dinteloord (The Netherlands)
Tel: +31 (0) 165 525 006 (office hours)
E-mail: customerservice@cosunbeetcompany.com

1.4 Emergency telephone number

Cosun Beet Company: +31 (0) 165 525 215 (Netherlands), +31 (0) 165 525 208 (24/7 International)

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008)
Not classified.

Classification council Directives 67/548/EEC or 1999/45/EEC
Not classified.

2.2 Label elements

None.

2.3 Other hazards

This product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.
Dust may form explosive mixture in air.

Section 3. Composition/information on ingredients

3.1 Substances

Name of substance	EG-Nr	Cas-Nr	Weight percentage	Classification (67/548/EEG)	Classification (1272/2008)	REACH registration number
Saccharose	200-334-9	57-50-1	>99.9	-	-	None (Annex IV)

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Section 4. First aid measures

4.1 Description of first aid measures

General advice	No hazards which require special first aid measures.
Eye contact	Rinse immediately with plenty of water. Seek medical attention if irritation persists.
Skin contact	Rinse with water.
Ingestion	No hazards which require special first aid measures.
Inhalation	Expose to fresh air. Seek medical attention if symptoms occur and persists.
Protection of first aid responders	Not applicable.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms No acute and delayed symptoms or effects have been observed.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat the symptoms.

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water, foam and powder.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

Special hazard Dust may form explosive mixture with air.

5.3 Advice for fire fighters

Special protective equipment Wear self-contained breathing apparatus and protective suit.

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas in case of dust development. Ensure adequate ventilation. Avoid contact with eyes and skin. Use personal protective equipment like gloves and P1 dusk mask. Avoid dust formation.

6.2 Environmental precautions

No special environmental precautions required.
Do not flush into surface water or sewage.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Discharge containers to a treatment facility. After cleaning rinse remainder with water.

6.4 Reference to other sections

See sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Observe good industrial hygiene and safety procedures during operation. Avoid creating dust. Use sparkless tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Relative humidity: about 60%. Store at temperatures between 10 and 30 °C. Incompatible with oxidizing agents, water. Take precautions against static discharge. Avoid microbial contamination.

7.3 Specific end use(s)

Exposure scenario Not available.

Other information Not available.

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Section 8. Exposure controls/personal protection

8.1 Control parameters

Name of substance	European Union	United Kingdom	France	Spain	Germany
Saccharose		STEL: 20 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	

Name of substance	Italy	Portugal	Netherlands	Denmark	Poland
Saccharose		TWA: 10 mg/m ³			

Recommended monitoring procedures No information available.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined spaces.

Individual protection measures

Eye/face protection

Dust glasses

Hand protection

Protective gloves in connection with skin dehydration.

Skin and body protection

Long-sleeved clothing.

Respiratory protection

In case of insufficient ventilation wear a P1 dust mask.

Hygiene measures

Observe good industrial hygiene and safety procedures during operation. Do not eat or drink while working. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls Prevent the product to enter drains, water courses or soil.

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state @20°C	Solid
Appearance	Powder, crystalline
Colour	White
Odour	None
pH	No information available
Melting point/freezing point	186°C ± 4°C
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability limits	No information available
Explosion limits - lower	30 g/m ³ @ <25 micron 60 g/m ³ @ 110 micron 500 g/m ³ @ 300 micron
Vapour pressure	No information available
Vapour density	No information available
Relative density	1586 kg/m ³ @ 20°C (sugar crystals)
Solubility	67,3% @ 25°C
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	350°C @ <25 micron
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	140 bar.m/s @ <25 micron 12 bar.m/s @ 300 micron
Oxidising properties	No information available

9.2 Other information

Minimum ignition energy	5 mJ @ <25 micron >1000 mJ @ 110 micron >100000 mJ @ 300 micron
Glow Temperature 5 mm	420°C @ <25 micron
Dust explosion class	St 1 @ < 25 micron
Maximum explosion pressure	9 bar @ <25 micron 4 bar @ 300 micron
Burning number	2 @ <25 micron
Melting temperature	169°C
Volume resistivity	> 10 ¹⁰ Ωm

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Section 10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Heat (temperatures above flash point), sparks, ignition sources, flames, static electricity. Avoid microbial contamination.

10.5 Incompatible materials

Oxidizers, water.

10.6 Hazardous decomposition products

None under normal use.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Ingestion	No known effect.
Skin contact	No known effect.
Inhalation	No known effect.

Skin corrosion/irritation No known effect.

Serious eye damage/irritation No known effect.

Respiratory or skin sensitisation No known effect.

Germ cell mutagenicity Is not known to cause heritable genetic damage.

Carcinogenicity Contains no ingredients classified as carcinogenic.

Reproductive toxicity Not known to be causative of abnormalities or adverse effects on the development of the foetus. Not known to cause adverse reproductive effects.

STOT-single exposure No known effect.

STOT-repeated exposure No known effect.

Aspiration hazard No known effect.

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Section 12. Ecological information

12.1 Toxicity

Contains no substances known to be hazardous to the environment. An overdose causes such a decrease in the oxygen content that anaerobic conditions arise.

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

Not applicable.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

No information available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste of residues / not used product

Dispose of in accordance with local regulations.

Contaminated packaging

Empty packaging / containers should be taken for recycling or disposal at an approved waste treatment plant.

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Section 14. Transport information

According: ADR, RID, ADN, IMDG, IATA/ICAO

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

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

Restrictions for use None.

Other regulations None.

15.2 Chemical safety assessment

Not necessary.

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Section 16. Other information

Full text of H-phrases referred to in Sections 2 and 3

Not applicable.

Abbreviations / acronyms	(E)EC European Commission
	REACH Registration, Evaluation, Authorisation and Restriction of Chemical substances
	STOT Specific Target Organ Toxicity
	PBT Persistent, Bioaccumulative, Toxic
	vPvB very Persistent and very Bioaccumulative
	ADR Accord européen relatif au transport international des marchandises Dangereuses par Route
	RID Regulations for the International Transport of Dangerous Goods by Rail
	ADN Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures
	IATA International Air Transport Association
	ICAO International Civil Aviation Organization
	IMDG International Maritime Dangerous Goods Code

Notes on revision New layout, Composition, First Aid Measures, Physical properties.

Training advice Staff must be trained in the proper use and proper handling of this product as required under applicable laws and regulations.

Disclaimer

The information in this safety data sheet is to our best knowledge and belief correct at the date of publication. This information is intended as a guide for safe work (handling, use, processing, storage, transportation, disposal and release) and should not be considered a warranty or quality specification. The information relates only to the specific product indicated and may not be valid for this product in combination with other products or processes, unless specified in the text.