

# SAFETY DATA SHEET

### 1. Identification

Product identifier	Granulated Sugar	
Other means of identification		
Synonyms	Cane sugar * Beet sugar	
Recommended use	Food products.	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name Address	Cargill Incorporated 15407 McGinty Road W. Wayzata, MN 55391	
Email	Not available	
General Information:	1-866-456-8872	
Emergency Telephone Number:	1-800-424-9300	
2. Hazard(s) identification	l de la constante de	
Physical hazards	Not classified.	
Health hazards	Not classified.	
OSHA defined hazards	Combustible dust	
Label elemente		

Label elements	
Hazard symbol	None.
Signal word	Warning
Hazard statement	May form combustible dust concentrations in air.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	

Not applicable.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Sucrose	57-50-1	100

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed General information Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

0 0	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Dust may form explosive mixture with air. 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.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In the event of fire, cool tanks with water spray.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Use with adequate ventilation. Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid direct contact with eyes.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Sucrose (CAS 57-50-1)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	Form
Sucrose (CAS 57-50-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Biological limit values	No biological exposure limits noted for	the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 a should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis recommended that all dust control equ transport systems involved in handling suppression system or an oxygen-defin as exhaust ducts, dust collectors, vess to prevent the escape of dust into the v only appropriately classified electrical of	blicable, use process enclosu in airborne levels below reco hed, maintain airborne levels ipment such as local exhaust of this product contain explo cient environment. Ensure the els, and processing equipme work area (i.e., there is no lea	ures, local exhaust ventilation, mmended exposure limits. If to an acceptable level. It is t ventilation and material sion relief vents or an explosior at dust-handling systems (such ent) are designed in a manner akage from the equipment). Use
ndividual protection measure	s, such as personal protective equipme	nt	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear suitable gloves.		
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear	suitable respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective cl	othing, when necessary.	
General hygiene considerations	Always observe good personal hygien and before eating, drinking, and/or smo equipment to remove contaminants.		

## 9. Physical and chemical properties

Appearance	White crystalline powder
Physical state	Solid.
Form	Crystalline powder.
Color	White
Odor	Odorless to a characteristic caramel odor
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	320 - 366.8 °F (160 - 186 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
•	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	331 grams per 100 grams water @ 70°C
Partition coefficient (n-octanol/water)	LogKow: -3.70
Auto-ignition temperature	Not available.
Granulated Sugar	

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Dust explosion properties	
St class	1
Minimum explosible concentration (MEC)	0.05 g/l
Minimum ignition energy (MIE) - dust cloud	< 10 mJ

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Contact with incompatible materials. Humidity.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

### 11. Toxicological information

#### Information on likely routes of exposure

Information on likely routes of exposure	
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.
Ingestion	Ingestion may cause irritation and malaise.
Symptoms related to the physical, chemical and toxicological characteristics	Irritant effects.
Information on toxicological effe	ects
Acute toxicity	Not available.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitizatior	1
<b>Respiratory sensitization</b>	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulate Not listed.	d Substances (29 CFR 1910.1001-1050)
Reproductive toxicity	No data available.
Specific target organ toxicity -	No data available.

Specific target organ toxicity -<br/>single exposureNo data available.Specific target organ toxicity -<br/>repeated exposureNo data available.Aspiration hazardNo data available.

## 12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	No data is available on the degradability of this product.

Bioaccumulative potential	No data available for this product.	
Partition coefficient n-octanol / water (log Kow) Sucrose (CAS 57-50-1) -3.7		
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
13. Disposal considerations		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	

Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

# Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

**US federal regulations** 

This product is hazardous according to OSHA 29 CFR 1910.1200 due to the potential for dust explosion.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Hazard categories

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

## SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### US. Massachusetts RTK - Substance List

Sucrose (CAS 57-50-1)

## US. New Jersey Worker and Community Right-to-Know Act

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

Sucrose (CAS 57-50-1)

US. Rhode Island RTK

Not regulated.

#### **US. California Proposition 65**

Not Listed.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	10-March-2015
Revision date	-
Version #	01
Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
NFPA ratings	



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