

Synonyms

D-SUCROSE (GLUCOSE-13C6, 98%)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/8/2012 Revision date: 3/2/2023 Supersedes: 8/11/2022 Version: 2.4

SECTION 1: Identification

1.1. Identification	
Product form	: Substance
Substance name	: D-SUCROSE (GLUCOSE-13C6, 98%)
CAS-No.	: 57-50-1
Product code	: CLM-8091
Formula	: C6*C6H22O11

: Sugar / D(+)-Saccharose / alpha-D-Glc-(1->2)-beta-D-Fru / alpha-D-Glucopyranosyl Beta-D-Fructofuranoside / Beta-D-Fructofuranosyl-alpha-D-glucopyranoside

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 cilsales@isotope.com - www.isotope.com **1.4. Emergency telephone number**

Emergency number

: 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	GHS US classification
D-SUCROSE (GLUCOSE-13C6, 98%) (Main constituent)	CAS-No.: 57-50-1	100	Not classified
Full text of hazard classes and H-statements : see section 16			

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Flush eyes with water as a precaution.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and effe	ects (acute and delayed)
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: Contact may cause eye irritation.
Symptoms/enects after eye contact	

SECTION 5: Fire-fighting measu	ires	
5.1. Suitable (and unsuitable) extin	guishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.	
5.2. Specific hazards arising from t	he chemical	
No additional information available		
5.3. Special protective equipment and precautions for fire-fighters		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.
6.1.2. For emergency responders	
Ne edultional information evolution	
No additional information available	
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
C.2. Matheda and material for containment	
6.3. Methods and material for containment	and cleaning up
For containment	: Sweep up and shovel. Keep in suitable, closed containers for disposal.
r or containment	. Sweep up and shovel. Reep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, including	ng any incompatibilities

Storage conditions

: Store at room temperature away from light and moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

D-SUCROSE (GLUCOSE-13C6, 98%)	
USA - ACGIH - Occupational Exposure Li	mits
ACGIH OEL TWA	10 mg/m ³ Dental erosion. Not classifiable as a human carcinogen.
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.
USA - OSHA - Occupational Exposure Lin	nits
OSHA PEL TWA [1]	5 mg/m³
USA - NIOSH - Occupational Exposure Li	mits
NIOSH REL TWA	5 mg/m³

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Eye protection:

Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection:

When appropriate, use NIOSH/CEN approved respirator.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline.
Color	: White
Odor	: No data available
Odor threshold	: No data available
pH	: 5.5 – 7.5 at 342 g/l at 25 °C (77 °F)
Melting point	$: 185 - 187 \circ C (365 - 369 \circ F)$
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
•	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Molecular mass	: 348.25 g/mol (Labeled)
Solubility	: Water: 342 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Five years after receipt of order if stored as above. Re-QC after five years. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

formed under fire conditions: Carbon oxides.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) ÷ Not classified Acute toxicity (inhalation) • Not classified D-SUCROSE (GLUCOSE-13C6, 98%) (57-50-1) LD50 oral rat 29700 mg/kg Somnolence (general depressed activity). Cynosis, diarrhea. ATE US (oral) 29700 mg/kg body weight Skin corrosion/irritation : Not classified pH: 5.5 - 7.5 at 342 g/l at 25 °C (77 °F) Serious eye damage/irritation : Not classified pH: 5.5 - 7.5 at 342 g/l at 25 °C (77 °F) Respiratory or skin sensitization Not classified · Germ cell mutagenicity · Not classified Carcinogenicity Not classified : Reproductive toxicity Not classified · STOT-single exposure · Not classified STOT-repeated exposure : Not classified Aspiration hazard • Not classified Viscosity, kinematic No data available : Potential Adverse human health effects and This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be symptoms construed as guaranteeing any specific property of the product. Symptoms/effects after inhalation May be harmful if inhaled. May cause respiratory tract irritation. : Symptoms/effects after skin contact May be harmful if absorbed through skin. May cause skin irritation. : Symptoms/effects after eye contact · Contact may cause eye irritation. Symptoms/effects after ingestion ÷ May be harmful if swallowed.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: Disposal must be done according to official regulations.

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.	
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology - waste materials	: Dispose of as unused product.	

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
Special transport precautions	: Not dangerous goods.
DOT No data available	
TDG No data available	
IMDG No data available	
IATA No data available	
14.7. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code
Not applicable	

SECTION 15: Regulatory information

15.1. US Federal regulations

D-SUCROSE (GLUCOSE-13C6, 98%) (57-50-1)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Name	CAS-No.	Listing	Commercial status	Flags
D-SUCROSE (GLUCOSE-13C6, 98%)	57-50-1	Not present	-	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

D-SUCROSE (GLUCOSE-13C6, 98%) (57-50-1)

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

15.3. US State regulations

D-SUCROSE (GLUCOSE-13C6, 98%) (57-50-1)	
	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information				
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations				
Revision date	: 03/02/2023			
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.			

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.