

D-GLUCOSE (1-13C, 98-99%)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 05/08/2022 Date of issue: 13/06/2011 Supersedes: 05/06/2020 Version: 5.1 CLM-420

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	stance/mixture and of the company/undertaking	
1.1. Product identifier Product form	: Substance	
Substance name	: D-GLUCOSE (1-13C, 98-99%)	
EC-No.	: 200-075-1 (Unlabeled)	
CAS-No.	: 40762-22-9	
Product code	: CLM-420	
Formula	: HOCH2(CHOH)4*CHO	
Synonyms	: Dextrose	
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
Industrial/Professional use spec	: For professional use only	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety of	lata sheet	
Cambridge Isotope Laboratories, Inc.		
50 Frontage Road		
Andover, MA 01810 USA		
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identification		
2.1. Classification of the substance or m	ixture	
Classification according to Regulation (EC) N	o. 1272/2008 [CLP]	
Not classified		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]		
Not classified		
GHS-US classification		
Not classified		
Adverse physicochemical, human health and environmental effects		
No additional information available		
2.2. Label elements		
Labelling according to Regulation (EC) No. 12	72/2008 [CLP]	

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	
D-GLUCOSE (1-13C, 98-99%)	(CAS-No.) 40762-22-9 (EC-No.) 200-075-1 (Unlabeled) (EC Index-No.)	100	Not classified	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
D-GLUCOSE (1-13C, 98-99%)	(CAS-No.) 40762-22-9 (EC-No.) 200-075-1 (Unlabeled) (EC Index-No.)	100	Not classified	

Full text of R- and H-statements: see section 16

Name	Product identifier	%	GHS-US classification
D-GLUCOSE (1-13C, 98-99%) (Main constituent)	(CAS-No.) 40762-22-9	100	Not classified

Full text of 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	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of water/ Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medic	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the s	ubstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapours, mist, gas. Avoid dust formation.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information

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6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do	o not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for contain	ment and cleaning up
For containment	: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapour concentrations.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, inclu	iding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
Appropriate engineering controls	smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Crystalline, Powder
Molecular mass	: 181.15 g/mol (Labeled)
Colour	: White
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 150 - 152 °C (302 - 306 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Description of the second sector second	· Ne dete eventele

Decomposition temperature

Flammability (solid, gas)

Vapour pressure

: No data available

: No data available

: No data available

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Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: - Soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable if stored under recommended conditions.		
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		
Carbon oxides (CO, CO2).		
SECTION 11: Toxicological information	on	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9)		
•	25800 mg/kg Remarks: Behavioral:Coma. Cyanosis Diarrhoea	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9)	25800 mg/kg Remarks: Behavioral:Coma. Cyanosis Diarrhoea : Not classified	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation		
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D-GLUCOSE (1-13C, 98-99%) (40762-22-9) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity	 Not classified Not classified Not classified Not classified Mouse - lymphocyte - Mutation in mammalian somatic cells. 	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation	 Not classified Not classified Not classified Not classified Mouse - lymphocyte - Mutation in mammalian somatic cells. Not classified 	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Not classified Not classified Not classified Mouse - lymphocyte - Mutation in mammalian somatic cells. Not classified Not classified Not classified 	
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D-GLUCOSE (1-13C, 98-99%) (40762-22-9) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	 Not classified Not classified Not classified Not classified Mouse - lymphocyte - Mutation in mammalian somatic cells. Not classified Not classified Not classified Not classified 	
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SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PB1 and vPVB assessment No additional information available 12.6. Other adverse effects No additional information : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations. ProductPackaging disposal recommendations: : Offer surgulus adverse disposal evolutions to a licensed disposal company. Contact a licensed inports information. 16.0 Dispose of as unused product. SECTION 14: Transport information : Dispose of as unused product. 14.1 UN number Not applicable . 14.2. UN proper shipping name No add	12.2. Persistence and degradability	
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14.5. Special precautions for user	14.4. Environmental hazards	
	Other information	: No supplementary information available.
Special transport precautions : Not dangerous.	14.5. Special precautions for user	
	Special transport precautions	: Not dangerous.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.6. Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

D-GLUCOSE (1-13C, 98-99%) CLM-420

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2. International regulations	
CANADA	
D-GLUCOSE (1-13C, 98-99%) (40762-22-9)	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. **National regulations**

No additional information available

15.3. US State regulations	
D-GLUCOSE (1-13C, 98-99%)(40762-22-9)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard

CIL Substance SDS

Physical

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

: 0 Minimal Hazard