

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 Date of issue: 11/08/2022 Revision date: : Version: 1.0 CLM-746-MPT

	bstance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form		
Substance name	: D-GLUCOSE (2-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED	
EC-No.	: 200-075-1 (Unlabeled)	
CAS-No.	: 105931-74-6	
Product code	: CLM-746-MPT	
Formula	: HOCH2(CHOH)3(*CHOH)CHO	
Synonyms	: Dextrose	
1.2. Relevant identified uses of the sub	ostance 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	/ data 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	mixture	
Classification according to Regulation (EC)	No. 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.	1272/2008 [C] P]	
Lasoning according to Regulation (EC) NO.	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	

No labelling applicable

GHS-US labelling

No labelling applicable

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2.3. Other hazards

No additional information available

gredients		
Product identifier	%	Classification according to Directive 67/548/EEC
(CAS-No.) 105931-74-6 (EC-No.) 200-075-1 (Unlabeled)	100	Not classified
Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(CAS-No.) 105931-74-6 (EC-No.) 200-075-1 (Unlabeled)	100	Not classified
	Product identifier (CAS-No.) 105931-74-6 (EC-No.) 200-075-1 (Unlabeled) Product identifier (CAS-No.) 105931-74-6	Product identifier % (CAS-No.) 105931-74-6 (EC-No.) 200-075-1 (Unlabeled) 100 Product identifier % (CAS-No.) 105931-74-6 100

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

Name	Product identifier	%	GHS-US classification
D-GLUCOSE (2-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (Main constituent)	(CAS-No.) 105931-74-6	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	: 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 e	ffects, both acute and delayed
Symptoms/effects	: Not available.
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	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate med	ical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	S
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	easures
	equipment 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	
No additional information available	

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6.2. Environmental precautions	
Do not let product enter drains.	
6.3. Methods and material for contain	nent and cleaning up
For containment	: Sweep up and shovel. Keep 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	· Further processing of colid materials may result in the formation of combustible ducts. The
Additional hazards when processed	Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. 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, inclue	ding any incompatibilities
Technical measures	: Keep container tightly closed in a dry and well-ventilated place.
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/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Hand protection	: Wear suitable protective clothing and gloves.
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.
SECTION 9: Physical and chemical	l 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
pH	: 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 : No data available
Flash point	: No data available : No data available
Auto-ignition temperature Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

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Solubility	: Soluble in water. Water: 100 %
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 product	S
Carbon oxides.	
SECTION 11: Toxicological informa	tion
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11.1. Information on toxicological effects	
11.1. Information on toxicological effects Acute toxicity	s : Not classified
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Information on toxicological effects Acute toxicity D-GLUCOSE (2-13C, 99%) MICROBIOLOGIC LD50 oral rat	S S S S S S S S S S S S S S S S S S S
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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
D-GLUCOSE (2-13C, 99%) MICROBIOLOGIC	
Persistence and degradability	Not available.
12.3. Bioaccumulative potential	
D-GLUCOSE (2-13C, 99%) MICROBIOLOGIC	
Bioaccumulative potential	Not available.
12.4. Mobility in soil	
D-GLUCOSE (2-13C, 99%) MICROBIOLOGIC	AL/PYROGEN TESTED (105931-74-6)
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: Not available.
SECTION 12: Disposal consideration	
SECTION 13: Disposal consideration	15
13.1. Waste treatment methods Regional legislation (waste) Image: Comparison of the second	: Waste materials should be disposed of under conditions which meet Federal, State, and Local
Regional registation (waste)	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 ADR / RID / IMDG / IATA / AI	DN
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Not dangerous goods.
Overland transport	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: Not dangerous goods.
14.6. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code
Tansport in bulk according to Affile	

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

D-GLUCOSE (2-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (105931-74-6)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

D-GLUCOSE (2-13C, 99%) MICROBIOLOGICAL/PYR	OGEN TESTED(105931-74-6)
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 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

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
Physical	: 0 Minimal Hazard

CIL Substance SDS

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