

URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE, DISODIUM SALT (GLUCOSE-13C6, 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 Date of issue: 01/12/2017 Revision date: : Version: 1.0 CLM-10513

SECT	ON 1: Identification of the su	bstance/mixture and of the company/undertaking	
1.1.	Product identifier		
Product	form	: Substance	
Substan	ce name	: URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE, DISODIUM SALT (GLUCOSE-13C6, 99%)	
EC No		: 248-801-6 (Unlabeled)	
CAS No		: 28053-08-9 (Unlabeled)	
Product	code	: CLM-10513	
Formula		: C9*C6H22N2Na2O17P2	
Synonyr	ns	 UDP-glc / Uridine-diphosphate-glucose disodium salt / Uridine[5']diphospho[1]-α-D- glucopyranose disodium salt 	
1.2.	Relevant identified uses of the sul	ostance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
	e category	: Professional use	
	al/Professional use spec	: For professional use only	
maastrie			
1.2.2.	Uses advised against		
No addi	tional information available		
1.3.	Details of the supplier of the safet	y data sheet	
	lge Isotope Laboratories, Inc.		
	tage Road r, MA 01810		
USA	, MA 01810		
	-800-322-1174 Int: 1-978-749-8000		
	<u>@isotope.com</u> www.isotope.com		
	Emergency telephone number		
Emerge	ncy numbers:		
Chemtrec: 1-800-424-9300 (24 hours)			
	onal: 1-703-741-5970 (24 hours)		
SECT	ON 2: Hazards identification		
2.1. Classification of the substance or mixture			
Classifi	cation according to Regulation (EC)	No. 1272/2008 [CLP]	
Not clas			
Classifi	cation according to Directive 67/548	/EEC [DSD] or 1999/45/EC [DPD]	
Not classified			
GHS-US classification			
Not clas	sified		
	a should be a first of the second		
Adverse physicochemical, human health and environmental effects			
No addi	tional information available		
2.2.	Label elements		
Labeling according to Regulation (EC) No. 1272/2008 [CLP]			
No labeling applicable			
GHS-US	6 labeling		
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No labeling applicable

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Other hazards 2.3.

No additional information available

SECTION 3: Composition/Information on ingredients

3.1.	Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE, DISODIUM SALT (GLUCOSE-13C6, 99%)	(CAS No) 28053-08-9 (Unlabeled) (EC No) 248-801-6 (Unlabeled) (EC Index No)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE, DISODIUM SALT (GLUCOSE-13C6, 99%)	(CAS No) 28053-08-9 (Unlabeled) (EC No) 248-801-6 (Unlabeled) (EC Index No)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE, DISODIUM SALT (GLUCOSE-13C6, 99%) (Main constituent)	(CAS No) 28053-08-9 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measure	IS Contraction of the second se
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 soap and 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	effects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	9S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from th	e substance 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 n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.
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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
.2. Environmental precautions	
Prevent entry to sewers and public waters.	. Do not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) 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 stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, in	cluding 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/	personal protection
8.1. Control parameters	
No additional information available	
3.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or 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.
land 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 chem	ical properties
9.1. Information on basic physical	
Physical state	: Solid
Appearance	: Powder.

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Appearance	: Powder.
Molecular mass	: 616.22 g/mol (Labeled)
Color	: White.
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
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
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

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No additional information available

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No addi	tional information available		
10.2.	Chemical stability		
Stable if	f 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 of	oxidizing agents.		
10.6.	Hazardous decomposition products		

Carbon oxides (CO, CO2). Nitrogen oxides. Oxides of phosphorus. sodium oxides.

SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
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. Heart - Irregularities - Based on Human Evidence. Kidney - irregularities - Based on Human Evidence. Stomach - Irregularities Based on Human Evidence.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

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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. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment 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 ADR / RID / IMDG / IATA / ADN 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 classified as dangerous in the meaning of transport regulations.	
Overland transport		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available 14.4. Environmental hazards		
	No supplementary information available.	
14.5. Special precautions for user		
	Not classified as dangerous in the meaning of transport regulations.	
14.6. Transport in bulk according to Annex II		
Not applicable		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE,	DISODIUM SALT (GLUCOSE-13C6, 99%) (28053-08-9 (Unlabeled))	
	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
15.2. International regulations		
CANADA		
URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE,	DISODIUM SALT (GLUCOSE-13C6, 99%) (28053-08-9 (Unlabeled))	

Listed on the Canadian DSL (Domestic Substances List)

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15.2.1. National regulations

No additional information available

15.3. US State regulations		
URIDINE DIPHOSPHATE-ALPHA-D-GLUCOSE, DISODIUM SALT (GLUCOSE-13C6, 99%)(28053-08-9 (Unlabeled))		
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	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	
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 dire 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	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture 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