

D-XYLOSE (U-13C5, 99%)

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.0

CLM-6140

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1.1. Product identifier	
Product form	: Substance
Substance name	: D-XYLOSE (U-13C5, 99%)
EC no	: 200-400-7 (Unlabeled)
CAS No	: 1262683-58-8
Product code	: CLM-6140
Formula	: HO*CH2(*CHOH)3*CHO
1.2. Relevant identified uses of th	e substance 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: 1-978-749-8 cilsales@isotope.com www.isotope.co	m
Emergency telephone numbe	er de la constant de
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours	
SECTION 2: Hazards identifica	, ,
2.1. Classification of the substan	ce or mixture
Classification according to Regulation Not classified	(EC) No. 1272/2008 [CLP]
Classification according to Directive 6	7/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified	

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

GHS-US labeling

No labeling applicable

2.3. **Other hazards**

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substance				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	
D-XYLOSE (U-13C5, 99%) (Main constituent)	(CAS No) 1262683-58-8 (EC no) 200-400-7 (Unlabeled)	100	Not classified	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	(CAS No) 1262683-58-8	100	Not classified	

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

Name	Product identifier	%	Classification (GHS-US)
D-XYLOSE (U-13C5, 99%) (Main constituent)	(CAS No) 1262683-58-8	100	Not classified

Full text of H-phrases: see section 16

3.2. **Mixture** Not applicable **SECTION 4: First aid measures Description of first aid measures** 4.1. : Move out of dangerous area. Consult a physician and show this safety data sheet. First-aid measures general First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. First-aid measures after skin contact : Wash off with soap and plenty of water. 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 effects, both acute and delayed Symptoms/injuries : Not available. Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin 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 medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 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 measures

6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
Emergen	cy procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.			
6.1.2.	For emergency responders				
No additio	No additional information available				
6.2.	Environmental precautions				
Do not let product enter drains.					
6.3.	Methods and material for containment	t and cleaning up			
For conta	or containment : Sweep up and shovel. Keep in suitable, closed containers for disposal.				

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6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage	le		
7.1. Precautions for safe handling			
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, inc	luding 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/p	ersonal 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	: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166.		
Skin and body protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. 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 chemi	cal properties		
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Crystalline.		
Molecular mass	: 155.09 g/mol (Labeled)		
Color	: White.		
Odor	: No data available		

Odor threshold : No data available pН : 4.5 - 6.0 Relative evaporation rate (butyl acetate=1) : No data available : 154 - 158 °C (309 - 316 °F) Melting point Freezing point : No data available Boiling point : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : The product is not flammable - Flammability (solids) Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : 1.525 g/cm3 Solubility : Water: 150.13 g/l at 20 °C (68 °F) Log Pow : No data available

Log Kow

EN (English US)

: No data available

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing 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	
Not available.	
10.5. Incompatible materials Strong oxidizing agents.	
10.6. Hazardous decomposition products	S
formed under fire conditions: Carbon oxides.	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
D-XYLOSE (U-13C5, 99%) (1262683-58-8)	
LD50 oral rat	> 2200 mg/kg male - >2,500 mg/kg female
Skin corrosion/irritation	: Not classified
	: Not classified No data available
Skin corrosion/irritation	: Not classified No data available pH: 4.5 - 6.0
	 Not classified No data available pH: 4.5 - 6.0 Not classified
Skin corrosion/irritation	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available
Skin corrosion/irritation	 Not classified No data available pH: 4.5 - 6.0 Not classified
Skin corrosion/irritation Serious eye damage/irritation	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0
Skin corrosion/irritation Serious eye damage/irritation	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available No tavailable No data available No data available
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available No data available No data available No tata available Not available
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not data available Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not data available Not classified Not classified Not classified Not available
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not available Not classified Not classified Not available Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not available Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not data available Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not available Not classified To the best of our knowledge, the chemical, physical, and toxicological properties have not been
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not available Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and symptoms	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not data available Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/injuries after inhalation	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available Not available Not available Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/injuries after inhalation Symptoms/injuries after skin contact	 Not classified No data available pH: 4.5 - 6.0 Not classified No data available pH: 4.5 - 6.0 Not available pH: 4.5 - 6.0 Not available No data available Not data available Not classified Not classifie

SECTION 12: Ecological information	

12.1. Toxicity

No additional information available

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12.2. Persistence and degradability				
D-XYLOSE (U-13C5, 99%) (1262683-58-8)				
Persistence and degradability	Biodegradability aerobic - Exposure time 15 d Result: 62.9% - Readily biodegradable.			
12.3. Bioaccumulative potential				
D-XYLOSE (U-13C5, 99%) (1262683-58-8)				
Bioaccumulative potential	Not available.			
12.4. Mobility in soil				
D-XYLOSE (U-13C5, 99%) (1262683-58-8)				
Ecology - soil	Not available.			
12.5. Results of PBT and vPvB assessmer	it			
No additional information available				
12.6. Other adverse effects				
Other adverse effects	: Not available.			
SECTION 13: Disposal consideration	S			
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.			
Waste 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 / AD	N			
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 Annex II of MARPOL 73/78 and the IBC Code				
Not applicable				
SECTION 15: Regulatory information				
15.1. US Federal regulations				

15.1. US Federal regulations

No additional information available

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15.2. International regulations
CANADA
D-XYLOSE (U-13C5, 99%) (1262683-58-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations	
D-XYLOSE (U-13C5, 99%)(1262683-58-8)	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List 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 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

HMIS III Rating		
Health	:	0 Minimal Hazard - No significant risk to health
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