

D-RIBOSE (3-D, 98%) 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

DLM-6559

	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: D-RIBOSE (3-D, 98%)
EC no	: 200-059-4 (Unlabeled)
CAS No	: 50-69-1 (Unlabeled)
Product code	: DLM-6559
Formula	: HOCH2(CHOH)(CDOH)(CHOH)CHO
1.2. Relevant identified uses of	the 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	e safety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA USA: 1-800-322-1174 Int: 1-978-749 <u>cilsales@isotope.com</u> www.isotope.	
Emergency telephone num	ber
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hou	
SECTION 2: Hazards identific	ation
2.1. Classification of the substa	ance or mixture
Classification according to Regulation	on (EC) No. 1272/2008 [CLP]
Not classified	
Classification according to Directive Not classified	67/548/EEC or 1999/45/EC
Classification (GHS-US) Not classified	
Adverse physicochemical, human he No additional information available	ealth and environmental effects
2.2. Label elements	
Labeling according to Regulation (E No labeling applicable	C) No. 1272/2008 [CLP]
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. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
D-RIBOSE (3-D, 98%) (Main constituent)	(CAS No) 50-69-1 (Unlabeled) (EC no) 200-059-4 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Name	Product identifier	%	Classification (GHS-US)
D-RIBOSE (3-D, 98%) (Main constituent)	(CAS No) 50-69-1 (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 measures		
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
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 eff	fects, both acute and delayed	
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 medi	cal 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 s	substance or mixture	
Reactivity	: Not 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		
	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

6.2. **Environmental precautions** Do not let product enter drains.

Methods and material for containment and cleaning up 6.3.

For containment

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6.4. Reference to other see	ctions
No additional information available	e
SECTION 7: Handling and	d storage
7.1. Precautions for safe h	andling
Precautions for safe handling	: Provide appropriate exhaust ventilation at places where dust is formed.
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 ste	orage, including any incompatibilities
Technical measures	: Keep container tightly closed in a cool, 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	e
SECTION 8: Exposure co	ntrols/personal protection
8.1. Control parameters	
No additional information available	e
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	I chemical properties
	physical and chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 151.13 g/mol (Labeled)
Color	: white.
Odor	: No data available
Odor threshold	: No data available

Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 88 - 92 °C (190 - 198 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
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
Explosive limits	: No data available

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9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	·
10.1. Reactivity	
Not 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 agent.	
10.6. Hazardous decomposition products	
carbon oxides.	
SECTION 11: Toxicological information	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation Serious eye damage/irritation	: Not classified : 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	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
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.

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
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

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SECTION 13: Disposal considerat	ions
13.1. Waste treatment methods	
	: Waste materials should be disposed of under conditions which meet Federal, State, and Local
Regional legislation (waste)	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 informatic	on la
In accordance with ADR / RID / ADNR / IMDO	G / ICAO / IATA
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 A	nnex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory informat	ion
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
D-RIBOSE (3-D, 98%) (50-69-1 (Unisheled	N

D-RIBOSE (3-D, 98%) (50-69-1 (Unlabeled)) Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations	
D-RIBOSE (3-D, 98%)(50-69-1 (Unlabeled))	
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.

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SECTION 16: Other inform	nation
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 - 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