

D-RIBOSE (2-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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DLM-1197

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SECTI	ON 1: Identification of th	e substance/mixture and of the company/undertaking
1.1.	Product identifier	
Product	form	: Substance

Substance name	: D-RIBOSE (2-D, 98%)
EC no	: 200-059-4 (Unlabeled)
CAS No	: 50-69-1 (Unlabeled)
Product code	: DLM-1197
Formula	: HOCH2(CHOH)2(CDOH)CHO
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against

1.2.1. **Relevant identified uses**

Main use category	: Professional use
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Industrial/Professional use spec

: For professional use only.

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

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 or 1999/45/EC Not classified

Classification (GHS-US)

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. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
D-RIBOSE (2-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 (2-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 effect	ts, 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 medica	l 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 su	bstance 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 meas		
6.1. Personal precautions, protective eq	uipment 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.		
6.3. Methods and material for containme		
For 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		
7.1. Precautions for safe handling		
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 storage, includ	ing 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		
SECTION 8: Exposure controls/personal 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 properties

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 151.14 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	: 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	on	
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	: 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.	

SECTI	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available
12.4.	Mobility in soil
No additi	onal information available
12.5.	Results of PBT and vPvB assessment
No additi	onal information available
12.6.	Other adverse effects
No additi	onal information available

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SECTION 13: Disposal consideration	ns	
13.1. Waste treatment methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local	
Regional registration (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 information		
In accordance with ADR / RID / ADNR / IMDG /	/ 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 Anr	nex II of MARPOL 73/78 and the IBC Code	
14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable Image: Code		
SECTION 15: Regulatory information	on	
15.1. US Federal regulations		
No additional information available		

15.2. International regulations

CANADA

D-RIBOSE (2-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 (2-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 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 - 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