

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/14/2015 Revision date: 1/19/2024 Supersedes: 1/22/2018 Version: 3.0

SECTION 1: Identification		
1.1. Identification		
Product form Substance name CAS-No. Product code Formula Synonyms	 Substance VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95% CHEMICAL PURITY 58-85-5 DLM-9751 C10H16N2O3S (3αS,4S,6αR)-Hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid 	
1.2. Recommended use and restrictions or	n use	
No additional information available		
1.3. Supplier		
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>		
1.4. Emergency telephone number		
Emergency number	: 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixed	ture	
GHS US classification Not classified		
2.2. GHS Label elements, including precautionary statements		
GHS US labeling No labeling applicable		
2.3. Other hazards which do not result in c	lassification	
No additional information available		
2.4. Unknown acute toxicity (GHS US)		

Not applicable

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SECTION 3: Composition/Information on ingredients				
3.1. Substances				
Name	Product identifier	%	GHS US classification	
VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95% CHEMICAL PURITY (Main constituent)	CAS-No.: 58-85-5	100	Not classified	
Full text of hazard classes and 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	: 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 effect	ts (acute and delayed)
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.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Immediate medical attention and spe	ecial treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguishing	j media			
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).			
5.2. Specific hazards arising from the chem	nical			
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).			
5.3. Special protective equipment and precautions for fire-fighters				
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.			

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SECTION 6: Accidental release measures	S			
6.1. Personal precautions, protective equipme	ent and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures :	Avoid breathing vapors, mist, gas. Avoid dust formation.			
6.1.2. For emergency responders Protective equipment :	: Do not attempt to take action without suitable protective equipment. For further information ref to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Do not allow	w to enter drains or water courses. Avoid release to the environment.			
6.3. Methods and material for containment an	nd cleaning up			
For containment : Methods for cleaning up :	Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. 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 storage				
7.1. Precautions for safe handling				
Precautions for safe handling : Hygiene measures :	Provide adequate ventilation to minimize dust and/or vapor concentrations. 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, including an	y incompatibilities			
Technical measures : Storage conditions :	Store in a well-ventilated place. Keep container tightly closed. Store in freezer (-20°C). Protect from light.			
SECTION 8: Exposure controls/personal	protection			
8.1. Control parameters				
VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95%	CHEMICAL PURITY (58-85-5)			
No additional information available				
8.2. Appropriate engineering controls				
Appropriate engineering controls :	Wash hands and other exposed areas with mild soap and water before eating, drinking or			
Environmental exposure controls :	smoking and when leaving work. Avoid release to the environment.			
8.3. Individual protection measures/Personal	protective equipment			
Personal protective equipment: Gloves. Protective clothing. Protective goggles. Self-co	intained breathing apparatus.			
Materials for protective clothing:				
Wear suitable protective clothing and gloves				

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Hand 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

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: White
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 231 – 233 °C (448 - 451 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: 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
Molecular mass	: 248.34 g/mol (Labeled)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity
0.1. Reactivity
o additional information available
0.2. Chemical stability
table if stored under recommended conditions.
0.3. Possibility of hazardous reactions
o additional information available
0.4. Conditions to avoid
o additional information available
0.5. Incompatible materials
trong oxidizing agents.
0.6. Hazardous decomposition products
arbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

This internation on textoological encote	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: 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
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be
	construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

: May be harmful if swallowed.

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.

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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. Other adverse effects	
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local
Product/Packaging disposal recommendations	environmental control regulations. : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
Ecology - waste materials	professional waste disposal service to dispose of this material.Dispose of as unused product.
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	

14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG)	Not applicableNot applicableNot applicable

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Packing group (IATA)	: Not applicable	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
Special transport precautions	: Not dangerous	
DOT No data available		
TDG No data available		
IMDG No data available		
IATA No data available		
14.7. 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

VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95% CHEMICAL PURITY (58-85-5)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Name	CAS-No.	Listing	Commercial status	Flags
VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95% CHEMICAL PURITY	58-85-5	Not present	-	

15.2. International regulations

CANADA

VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95% CHEMICAL PURITY (58-85-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

VITAMIN B7 (BIOTIN) (3',3',4',4'-D4, 98%) 95% CHEMICAL PURITY (58-85-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on TECI (Thailand Existing Chemicals Inventory)

15.3. US State regulations

No additional information available

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SECTION 16: Other information

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Revision date	: 01/19/2024
Other information	: This product is not radioactive. The data given fo
	unlabeled compound, unless specifically indicated
	compoundo are generally not available, but are a

: 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.

Safety Data Sheet (SDS), USA

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.