

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: 08/04/2011 Revision date: 27/07/2022 Supersedes: 25/11/2019

DLM-431

Version: 3.2

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: L-METHIONINE (METHYL-D3, 98%)	
EC-No.	: 200-562-9 (Unlabeled)	
CAS-No.	: 13010-53-2	
Product code	: DLM-431	
Formula	: CD3SCH2CH2CH(NH2)COOH	
Synonyms	: (S)-2-Amino-4-(Methylmercapto)butyric acid / L-2-Amino-4-(methylthio)cutanoic acid	
1.2. Relevant identified uses of the su	ubstance 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		
	tu data abaat	
	ty data sneet	
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 o	r mixture	
Classification according to Regulation (EC	C) No. 1272/2008 [CLP]	
Not classified	,	
Classification according to Directive 67/54	8/EEC [DSD] or 1999/45/EC [DPD]	
Not classified		
GHS-US classification		
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
L-METHIONINE (METHYL-D3, 98%)	(CAS-No.) 13010-53-2 (EC-No.) 200-562-9 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-METHIONINE (METHYL-D3, 98%)	(CAS-No.) 13010-53-2 (EC-No.) 200-562-9 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-METHIONINE (METHYL-D3, 98%) (Main constituent)	(CAS-No.) 13010-53-2	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	: Move out of dangerous area. Consult a physician and show this safety data sheet.
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 e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: Contact may cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate med	ical 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 mo	easures
6.1. Personal precautions, protective	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	
Prevent entry to sewers and public waters.	
6.3. Methods and material for contain	
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	je		
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	cluding any incompatibilities		
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	personal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		
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.		
Environmental exposure controls	: Avoid release to the environment.		
SECTION 9: Physical and chemi	cal properties		
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Powder.		
Molecular mass	: 152.23 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	:	284 °C (543 °F)
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)	:	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

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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			
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			
No additional information available			
10.5. Incompatible materials			
Strong oxdizing agents.			
10.6. Hazardous decomposition products			
carbon oxides. Nitrogen oxides. Sulphur oxides.			
SECTION 11: Toxicological informat	ion		

11.1.

SECI ON 11: Toxicological information Information on toxicological effects Acute toxicity : Not classified L-METHIONINE (METHYL-D3, 98%) (13010-53-2) LD50 oral rat 36000 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Skin and Appendages: Allergic (Multiple organ involvement) Anaphylaxix. 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 : Not classified exposure Aspiration hazard : Not classified Potential Adverse human health effects and To the best of our knowledge, the chemical, physical, and toxicological properties have not ÷ symptoms been thoroughly investigated. Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Symptoms/effects after skin contact : Symptoms/effects after eye contact : Contact may cause eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

SECTI	ON 12: Ecological information				
12.1.	Toxicity				
No additi	No additional information available				
12.2.	Persistence and degradability				
No additi	ional information available				
12.3.	Bioaccumulative potential				
No additi	ional information available				
12.4.	Mobility in soil				
No additi	ional information available				
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12.5. Results of PBT and vPvB assessmen	t
No additional information available	•
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	. Weste wetering a best date at instance of the second interest for the second for the second level
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 / AD	N
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional 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	
	: No supplementary information available.
14.5. Special precautions for user Special transport precautions	· Not deparation goode
Special transport precautions	: Not dangerous goods.
44.0 Transport in bulk according to Appen	Wat MARROL 72/70 and the IRC Code
	II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
L-METHIONINE (METHYL-D3, 98%) (13010-53	-2)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

15.2. International regulations

CAN	CANADA		
L-N	METHIONINE (METHYL-D3, 98%) (13010-53-2)		
Lis	ted on the Canadian DSL (Domestic Substances List)		

15.2.1. National regulations

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15.3. US State regulations	
L-METHIONINE (METHYL-D3, 98%)(13010-53-2)	
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	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - 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 fire 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.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance 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