

L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%)

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: 15/02/2011 Revision date: 01/01/2022 Supersedes: 17/08/2018

DLM-3861

Version: 4.2

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CAS-No. : 1334532 Product code : DLM-38 Formula : CD3N+(1.2. Relevant identified uses of the substance or mi 1.2.1. Relevant identified uses Main use category : Professi Industrial/Professional use spec : For profe 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: 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)	Ce
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SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/37/38 Full text of R-phrases: see section 16

GHS-US classification

Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

L-CARNITINE: HCL, O-BUTYRYL (N-METHYL-D3, 98%) DLM-3861

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

2.2. Label elements	
Labeling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS07 : Warning
Hazard statements (CLP)	 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contal lenses, if present and easy to do. Continue rinsing P312 - Call a poison center or doctor if you feel unwell P321 - Specific treatment (see See the emergency and first aid section of this material safety data sheet. on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to Dispose in a safe manner in accordance with local/national regulations

SECTION 3: Composition/Information on	ingredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-21-6	100	Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-21-6	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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Full text of R- and H- phrases: see section 16			
Name	Product identifier	%	GHS-US classification
L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (Main constituent)	(CAS-No.) 1334532-21-6	100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
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 : N	love out of dangerous area. Consult	a physician and sho	w this safety data sheet.
	breathed in, move person to fresh ai hysician.	r. If not breathing, gi	ve artificial respiration. Consult a
First-aid measures after skin contact : V	Vash with soap and plenty of water. C	Consult a physician.	
	lush eye with water for 15 minutes.		
	lever give anything by mouth to an u hysician.	nconscious person. I	Rinse mouth with water. Consult a
4.2. Most important symptoms and effects, b			
	lay be harmful if inhaled. May cause	, ,	
	lay be harmful if absorbed through sl	kin. Causes skin irrita	ation.
	Causes serious eye irritation.		
	lay be harmful if swallowed.		
4.3. Indication of any immediate medical atte No additional information available	ntion and special treatment neede	d	
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media : L	lse water spray, alcohol-resistant foa	m, dry chemical, or o	carbon dioxide.
5.2. Special hazards arising from the substan	nce or mixture		
No additional information available			
5.3. Advice for firefighters			
Firefighting instructions : V	Vear self contained breathing appara	tus for fire fighting if	necessary.
Protection during firefighting : D	o not enter fire area without proper p	rotective equipment	, including respiratory protection.
SECTION 6: Accidental release measure	S		
6.1. Personal precautions, protective equipm			
6.1.1. For non-emergency personnel			
0 , , ,	lse personal protective equipment. A	void dust formation.	Avoid breathing vapors, mist or gas
0 71	insure adequate ventilation. Avoid bro		rivera breatining vapere, met er gat
6.1.2. For emergency responders			
	o not attempt to take action without s	suitable protective eq	quipment. For further information
	efer to section 8: "Exposure controls/		
6.2. Environmental precautions			
Prevent further leakage or spillage if safe to do so. D	o not let product enter drains. Discha	arge into the environ	ment must be avoided.
6.3. Methods and material for containment a	nd cleaning up		
For containment : T	ake up mechanically (sweeping, sho	veling) and collect in	suitable container for disposal.
Methods for cleaning up : T	his material and its container must be	e disposed of in a sa	fe 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			
	void contact with skin and eyes.		
Precautions for safe handling A	void breathing Avoid breathing dust,	mist or spray. Use c	only outdoors or in a well-ventilated
Hygiene measures : H	rea. landle in accordance with good indus	trial hygiene and sa	fety practice. Wash hands before
C	reaks and at the end of workday.		
01/02/2022 EN	(English US)		3/

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7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Store refrigerated (-5°C to 5°C) and desiccated. Protect from light.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
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 chemica	I properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Solid
Molecular mass	: 270.77 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

рН	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	163 - 165 °C
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
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**

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Five years after receipt if stored as stated in "Sto	orage" section. Re-QC after 5 years.		
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
No additional information available			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
No additional information available			
SECTION 11: Toxicological informat	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified : Not classified		
Germ cell mutagenicity Carcinogenicity	: Not classified		
o ,			
Reproductive toxicity Specific target organ toxicity – single exposure	: Not classified : May cause respiratory irritation.		
Specific target organ toxicity – repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
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 tract irritation.		
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. Causes skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		

SECTI	ON 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.
12.2.	Persistence and degradability	
No additi	ional 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	ional information available	
12.6.	Other adverse effects	
N 1 1 11/1		

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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 treatment methods	: Offer surplus and non-recyclable solutions to a licensed disposal company.
Product/Packaging disposal recommendations	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AI	DN
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	: DOT/IMDG/IATA: 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	: DOT/IMDG/IATA: Not dangerous goods.
14.6. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	
L-CARNITINE:HCL, O-BUTYRYL (N-METHY	′L-D3, 98%) (1334532-21-6)
SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
15.2. International regulations	

CANADA

L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

 15.3. US State regulations

 L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%)(1334532-21-6)

 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 - Female
 No

 U.S. - California - Proposition 65 - Reproductive Toxicity - Male
 No

 State or local regulations
 RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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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.

Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
R36/37/38	Irritating to eyes, respiratory system and skin	
Xi	Irritant	

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	O - 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	: 2 Moderate Hazard - Temporary or minor injury may occur
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