

L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 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
 Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 Version: 3.2

 DLM-4425
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SECTION 1. Identification of the	ubstance/mixture and of the company/undertaking		
SECTION 1: Identification of the s	substance/mixture and of the company/undertaking		
Product form	: Substance		
Substance name	: L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%)		
CAS-No.	: 1334532-25-0		
Product code	: DLM-4425		
Formula	: C21H32D9NO4·HCI		
1.2. Relevant identified uses of the s	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			
1.3. Details of the supplier of the safe	ety data sheet		
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> 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	n		
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 67/54	48/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

No additional information available

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2.2. Label elements	
Labeling according to Regulation (EC) No.	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 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 contact lenses, if present and easy to do. Continue rinsing. P312 - Call a doctor 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 contact lenses, if present and easy to do. Continue rinsing P312 - Call a poison center or doctor if you feel unwell P321 - Specific treatment (see Hazard pictograms (CLP) 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 Comply with applicable regulations
2.3. Other hazards	

Other hazards 2.3.

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%)	(CAS-No.) 1334532-25-0	100	Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%)	(CAS-No.) 1334532-25-0	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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

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Name		Product identifier	%	GHS-US classification
L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIME 98%) (Main constituent)	THYL-D9,	(CAS-No.) 1334532-25-0	100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16				
.2. Mixtures				
lot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general	: Move	out of dangerous area. Consul	t a physician and show	v this safety data sheet.
irst-aid measures after inhalation	: If bre physi		air. If not breathing, giv	ve artificial respiration. Consult a
irst-aid measures after skin contact	: Wash	with soap and plenty of water.	Consult a physician.	
irst-aid measures after eye contact	: Flush	eye with water for 15 minutes.	Get medical attention.	
irst-aid measures after ingestion	: Neve physi		unconscious person. F	Rinse mouth with water. Consult a
.2. Most important symptoms and eff	ects, both	acute and delayed		
symptoms/effects after inhalation	-	be harmful if inhaled. May cause		
symptoms/effects after skin contact	-	be harmful if absorbed through s	skin. Causes skin irrita	ation.
ymptoms/effects after eye contact		es serious eye irritation.		
ymptoms/effects after ingestion	: May I	be harmful if swallowed.		
.3. Indication of any immediate media	cal attentio	n and special treatment need	ed	
o additional information available				
ECTION 5: Firefighting measures				
1. Extinguishing media				
uitable extinguishing media	: Use v	vater spray, alcohol-resistant fo	am, dry chemical, or c	arbon dioxide.
.2. Special hazards arising from the s	substance	or mixture		
lo additional information available				
.3. Advice for firefighters				
irefighting instructions	: Wear	self contained breathing appara	atus for fire fighting if I	necessary.
Protection during firefighting	: Do no	ot enter fire area without proper	protective equipment,	including respiratory protection.
SECTION 6: Accidental release me	asures			
.1. Personal precautions, protective e	equipment	and emergency procedures		
5.1.1. For non-emergency personnel				
mergency procedures		personal protective equipment. A re adequate ventilation. Avoid b		Avoid breathing vapors, mist or ga
.1.2. For emergency responders				
Protective equipment		ot attempt to take action without to section 8: "Exposure controls		uipment. For further information
.2. Environmental precautions				
revent further leakage or spillage if safe to do	o so. Do no	t let product enter drains. Disch	harge into the environr	nent must be avoided.
.3. Methods and material for containr	ment and c	leaning up		
or containment	: Take	up mechanically (sweeping, she	oveling) and collect in	suitable container for disposal.
ethods for cleaning up	: This r	naterial and its container must l	be disposed of in a sa	fe way, and as per local legislation
.4. Reference to other sections				
or further information refer to section 13.				
ECTION 7: Handling and storage				
.1. Precautions for safe handling				
additional hazards when processed	: Avoid	contact with skin and eyes.		
Precautions for safe handling	: Provi	Provide adequate ventilation to minimize dust and/or vapor concentrations.		
lygiene measures	: Hand	le in accordance with good indu	strial hygiene and saf	ety practice. Wash hands before
/3		s and at the end of workday.		• •

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7.2. Conditions for safe storage, i	2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.		
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	/personal 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 chemical properties

CECTION O. I Hydroar and ononnour		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Molecular mass	: 417.07 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	: No data available	
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**

No additional information available

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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	prage" 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	i de la companya de l	
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	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: 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.	

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.		
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 consideration	ns
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.
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 /	ADN
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 Ann	ex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Cod 14.6.

Not applicable

SECTION 15: Regulatory information			
15.1. US Federal regulations			
L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%) (1334532-25-0)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
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-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%) (1334532-25-0)	
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-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%)(1334532-25-0)			
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 New Jersey - Right to Know Hazardous Substance List RTK - U.S Pennsylvania - RTK (Right to Know) 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	: 1 - Materials that, under emergency conditions, can cause significant irritation.
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	: 1 Slight Hazard - Irritation or minor reversible injury possible
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