

Revision: 12/08/2018

		Section 1. Ide	entification of the Substan	ce/iviixture and of	ine Company/Ur	idertaking	
.1	Product Cod Product Nan Synonyms:		26559 Myristoyl-L-carnitine (chloride) (2R)-3-carboxy-N,N,N-trimethyl-2-[(1-oxotetradecyl)oxy]-1-propanaminium, monochloride; L-Myristoylcarnitine; Tetradecanoyl-L-carnitine;				
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant ic	lentified uses:	For research use only, no	ot for human or vete	rinary use.		
1.3	Details of the	e Supplier of the	Safety Data Sheet:				
	Company I	Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108				
	Web site address:		www.caymanchem.com				
	Informatio		Cayman Chemical Comp	any	+1 (734	4)971-3335	
1.4	Emergency f Emergency	telephone numb y Contact:	er: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887	
			Section 2. Haz	zards Identifi	cation		
2.1	Classificatio	n of the Substar	nce or Mixture:				
2.2	Label Eleme	nts:					
		rd Dhracaci					
	Based on e GHS Preca No phrases GHS Resp No phrases	aution Phrases: s apply. onse Phrases:	ently available data this subs	stance or mixture is	not classifiable ac	cording to GHS.	
	Based on e GHS Preca No phrases GHS Resp No phrases GHS Stora	evaluation of curre aution Phrases: s apply. onse Phrases: s apply. ge and Disposa	-			cording to GHS.	
2.3	Based on e GHS Preca No phrases GHS Resp No phrases GHS Stora	evaluation of curre aution Phrases: s apply. onse Phrases: s apply. oge and Disposa er to Section 7 for man Health M Symptoms: M T	I Phrases: Storage and Section 13 for laterial may be irritating to th lay be harmful by inhalation lay cause eye, skin, or resp o the best of our knowledge	Disposal informatio ne mucous membra , ingestion, or skin a iratory system irritat , the toxicological pr	n. nes and upper res absorption. ion. roperties have not	piratory tract. been thoroughly investigate	
2.3	Based on e GHS Preca No phrases GHS Resp No phrases GHS Stora Please refe Adverse Hu	evaluation of curre aution Phrases: s apply. onse Phrases: s apply. oge and Disposa er to Section 7 for man Health M Symptoms: M T	I Phrases: Storage and Section 13 for laterial may be irritating to th lay be harmful by inhalation lay cause eye, skin, or resp	Disposal informatio ne mucous membra , ingestion, or skin a iratory system irritat , the toxicological pr	n. nes and upper res absorption. ion. roperties have not	piratory tract. been thoroughly investigate	
CAS	Based on e GHS Preca No phrases GHS Resp No phrases GHS Stora Please refe Adverse Hu Effects and	evaluation of curre aution Phrases: s apply. onse Phrases: s apply. oge and Disposa er to Section 7 for man Health M Symptoms: M T Sectio	I Phrases: Storage and Section 13 for laterial may be irritating to the lay be harmful by inhalation lay cause eye, skin, or respino the best of our knowledge n 3. Composition	Disposal informatio ne mucous membra , ingestion, or skin a iratory system irritat , the toxicological pr	n. nes and upper res absorption. ion. roperties have not	piratory tract. been thoroughly investigate	

Multi-region format



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		Section 4. First Aid Measures				
4.1	Description of First Aid					
	Measures:					
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.				
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.				
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
		Section 5. Fire Fighting Measures				
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
	Media:	Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.				
5.2	Flammable Properties an Hazards:	dNo data available.				
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.				
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.				
6.3		r Contain spill and collect, as appropriate.				
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:					
		Section 7. Handling and Storage				
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken	Keep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

Multi-region format



	HEMICAL						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection:	glasses					
	Protective Gloves:	atible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		ies storing or utilizing this material should be equipped with an eyewash and a safety shower					
		h thoroughly after handling.					
		ata available.					
		ection 9. Physical and Chemical Properties					
9.1	-	ical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1)	: No data.					
	Specific Gravity (Water = 1	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble (slightly) in: MeOH;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	ire: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig						



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			Section 10. Stability and	l Reacti	vity			
10.1	0.1 Reactivity:		No data available.					
10.2	2 Stability:		Unstable [] Stable [X]					
10.3	0.3 Stability Note(s):		Stable if stored in accordance with information listed on the product insert.					
	Polymerization:		Will occur [] Will not occur [X]					
10.4	-		No data available.					
10.5								
	To Avoid:							
10.6	0.6 Hazardous		carbon dioxide					
	Decomposition or		carbon monoxide					
	Byprodu	icts:						
			Section 11. Toxicological	Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product have not been thoroughly studied.					
	Toxicolo	gical Effects:						
Carci	nogenicity	/:	NTP? No IARC Monographs? No OSHA Regulated? No					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1736	86-73-2	Myristoyl-L-carnit	ine (chloride)	n.a.	n.a.	n.a.	n.a.	
		·	Section 12. Ecological I	nformat	ion			
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	I:						
12.4	Mobility	in Soil:	No data available.					
12.5								
	assessment:							
12.6	Other ad	verse effects:	No data available.					
	Section 13. Disposal Considerations							
13.1	•							
	Section 14. Transport Information							
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	DOT Hazard Class:							
U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
A	DR/RID SI	hipping Name:	Not dangerous goods.					
U	N Numbe	r:						
н	azard Cla	SS:						



14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Transport in accordance with local, state, and federal regulations.

Not dangerous goods.

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
173686-73-2	Myristoyl-L-carnitine (chloride)		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name) Other US EPA or State Lists				
173686-73-2	Myristoyl-L-carnitine (chloride)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Ot	her Informatio	n		
Revision Date:		12/08/2018				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				