

Safety Data Sheet

 Catcher (J)
 Data of 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: 13/03/2011
 Revision date: 16/02/2022
 Supersedes: 17/08/2018
 Version: 4.2

 ULM-7802

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: L-CARNITINE:HCL, O-ACETYL UNLABELED		
CAS-No.	: 5080-50-2		
Product code	: ULM-7802		
Formula	: CH3N+(CH3)2CH2CH(OCOCH3)CH2COOHCl		
Synonyms	: R(-)-2-Acetyloxy-3-carboxy-N,N,N-trimethyl-1-propanaminium chloride. ALCAR. ALC		
1.2. Relevant identified uses of the sul	bstance or mixture and uses advised against		
1.2.1. Relevant identified uses			
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 safet	v data sheet		
Cambridge Isotope Laboratories, Inc.	y data sheet		
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 or mixture			
Classification according to Regulation (EC)	No. 1272/2008 [CL P]		
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	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

No additional information available

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2.2. Label elements	
Labeling according to Regulation (EC) No.	o. 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 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.
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 P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: 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**

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-ACETYL UNLABELED	(CAS-No.) 5080-50-2	100	Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-CARNITINE:HCL, O-ACETYL UNLABELED	(CAS-No.) 5080-50-2	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-ACETYL UNLABELED (Main constituent)	(CAS-No.) 5080-50-2	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	: Consult a physician. Show this safet dangerous area.	y data sheet to the do	octor in attendance. Move out of
First-aid measures after inhalation	: If breathed in, move person to fresh physician.	air. If not breathing, g	vive artificial respiration. Consult a
First-aid measures after skin contact	: Wash off with soap and plenty of wa	ter. Consult a physici	an.
First-aid measures after eye contact	: Rinse thoroughly with plenty of wate	er for at least 15 minut	es and consult a physician.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth with water. Consult a physici		o an unconscious person. Rinse
4.2. Most important symptoms and effe	cts, both acute and delayed		
Symptoms/effects after inhalation	: May be harmful if inhaled. May caus	e respiratory tract irrit	tation.
Symptoms/effects after skin contact	: May be harmful if absorbed through	skin. Causes skin irrit	tation.
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		
I.3. Indication of any immediate medica	al attention and special treatment need	led	
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Use water spray, alcohol-resistant for	oam, dry chemical, or	carbon dioxide.
5.2. Special hazards arising from the su	Ibstance or mixture		
No additional information available			
5.3. Advice for firefighters			
Firefighting instructions	 Fight fire with normal precautions fro apparatus. Do not enter fire area wit protection. 	om a reasonable dista hout proper protective	nce. Wear a self contained breathing e equipment, including respiratory
Protection during firefighting	: Do not enter fire area without proper Wear recommended personal protect		t, including respiratory protection.
SECTION 6: Accidental release mea	sures		
6.1. Personal precautions, protective ec	uipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Avoid dust formation. Avoid breathin	ig vapors, mist or gas	
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action withou refer to section 8: "Exposure control:		
6.2. Environmental precautions			
Prevent further leakage or spillage if safe to do	so. Do not let product enter drains.		
6.3. Methods and material for containm	ent and cleaning up		
	: Take up mechanically (sweeping sh	noveling) and collect in	n suitable container for disposal
For containment	 Take up mechanically (sweeping, sh This material and its container must 		
For containment Methods for cleaning up 6.4. Reference to other sections	Take up mechanically (sweeping, shThis material and its container must		

For further information refer to section 13.

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SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
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, in	cluding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
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 chemi	cal properties
9.1. Information on basic physical a	
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 239.7 g/mol
Color	: White

- : No data available : No data available
- : No data available
- Relative evaporation rate (butyl acetate=1) : No data available Melting point : 194 °C (381 °F) Freezing point : No data available : No data available Boiling point No data available Flash point : Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available : No data available Vapor pressure
- Relative vapor density at 20 °C : No data available Relative density : No data available
 - No data available :
 - : No data available : No data available
- : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties : No data available

Solubility

Log Pow

Log Kow

Odor

pН

Odor threshold

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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				
Five years after receipt if stored as stated in "Sto	rage" section. Re-QC after 5 years.			
10.3. Possibility of hazardous reactions				
No additional information available				
10.4. Conditions to avoid				
Avoid moisture.				
10.5. Incompatible materials				
Strong oxidizing agents.				
10.6. Hazardous decomposition products				
Fire conditions - Carbon oxides, Nitrogen oxides	(NOx), Hydrogen chloride gas.			
SECTION 11: Toxicological informat	ion			
11.1. Information on toxicological effects				
	: Not classified			
11.1. Information on toxicological effects				
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation	 Not classified Causes skin irritation. Causes serious eye irritation. 			
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11.1.Information on toxicological effectsAcute toxicitySkin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitizationGerm cell mutagenicityCarcinogenicityReproductive toxicitySpecific target organ toxicity – single exposure	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified May cause respiratory irritation. 			
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 11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact 	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Source respiratory irritation. Not classified Not classified May cause respiratory irritation. Not classified Source respiratory irritation. Not classified May cause respiratory irritation. Not classified May cause respiratory irritation. Not classified May cause respiratory irritation. May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. 			
11.1.Information on toxicological effectsAcute toxicitySkin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitizationGerm cell mutagenicityCarcinogenicityReproductive toxicitySpecific target organ toxicity – single exposureSpecific target organ toxicity – repeatedAspiration hazardPotential Adverse human health effects andSymptoms/effects after inhalation	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified Sot classified Sot classified Intervention 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. May be harmful if inhaled. May cause respiratory tract irritation. 			

SECT	ION 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 addi	tional information available		
12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Results of PBT and vPvB assessment		
No addi	tional information available		
12.6.	Other adverse effects		
No addi	tional information available		
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SECTION 13: Disposal consideration	IS
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 / A	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	: 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
	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: Not dangerous goods.

14.6. 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		
L-CARNITINE:HCL, O-ACETYL UNLABELED (5080-50-2)		
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	

CANADA

L-CARNITINE:HCL, O-	ACETYL UNLABELED (5080-50-2)
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-ACETYL UNLABELED(5080-50)-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

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L-CARNITINE:HCL, O-ACETYL UNLABELED(5080-50-2)	
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.

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	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	2 0
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