

Preparation Date: No data available



Revision Number: G1

# SAFETY DATA SHEET

Revision Date: 04/21/2015

Product identifier	
Product code: Product Name:	A1583 ACETYL-L-CARNITINE HYDROCHLORIDE
Other means of identification	
Synonyms:	Acetylcarnitine L-form Hydrochloride; R-(-)2-Acetyloxy-3-carboxy-N,N,N-trimethyl-1- propanaminium; [R]-3-Acetoxy-4-(trimethylammonio)butyrate
CAS #:	5080-50-2
RTECS #	Not available
CI#:	Not available
Recommended use of the chemic Recommended use: Uses advised against	cal and restrictions on use No information available. No information available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency telephone number Contact Person: Contact Person:	Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %	Trade Secret
Acetyl-L-carnitine Hydrochloride	5080-50-2	100	*
5080-50-2			

# 4. FIRST AID MEASURES

First aid measures General Advice:	Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Most important symptoms and	d effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use.

#### Indication of any immediate medical attention and special treatment needed Notes to Physician: Treat symptomatically

#### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

# **5. FIRE-FIGHTING MEASURES**

Extinguishing Media Suitable Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	No information available.
Specific hazards:	May be combustible at high temperatures Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

# **Special Protective Actions for Firefighters**

Special Protective Equipment for Firefighters:

No information available.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency proceduresPersonal Precautions:Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes<br/>and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not<br/>touch damaged containers or spilled material unless wearing appropriate protective clothing.<br/>Remove all sources of ignition.Environmental precautionsPrevent further leakage or spillage if safe to do so. Prevent product from entering<br/>drains. Prevent entry into waterways, sewers, basements or confined areas.Methods and material for containment and cleaning upMethods for containmentMethods for cleaning upStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated<br/>surface thoroughly.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Hygroscopic. Do not store above 8°C/46.4°F. Keep refrigerated.

#### Incompatible Materials:

No special restrictions on storage with other products

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### National occupational exposure limits

#### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Acetyl-L-carnitine Hydrochloride - 5080-50-2				

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
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	None	None	None	None
Acetyl-L-carnitine Hydrochloride - 5080-50-2				

#### Australia and Mexico

Components	Australia	Mexico
Acetyl-L-carnitine Hydrochloride	None	None
5080-50-2		

#### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Safety glasses. Safety glasses with side-shields.
Skin and body protection:	Chemical resistant apron. Gloves. Long sleeved clothing.
Respiratory protection:	Effective dust mask. Wear respirator with dust filter
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state: Solid.

Odor: No information available

Formula: C9H17NO4•HCI

Flash Point Tested according to: Not available

Autoignition Temperature (°C/°F): No information available

**Boiling point/range(°C/°F):** No information available

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Appearance: Crystalline powder.

Taste No information available

Flash point (°C): No data available

Lower Explosion Limit (%): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

**Density (g/cm3):** No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

**Solubility:** No information available Color: White.

Molecular/Formula weight: 239.69

Flashpoint (°C/°F): No information available.

**Upper Explosion Limit (%):** No information available

**Melting point/range(°C/°F):** 187°-189°C/368.6°-372.2°F

**Bulk density:** No information available

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

# 10. STABILITY AND REACTIVITY

Reactivity	
No information available	

Chemical stability Stability:	Hygroscopic. Stable at normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials. Exposure to moisture.
Incompatible Materials:	No information available
Hazardous decomposition products:	No information available
Other Information	
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Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

# **Acute Toxicity**

# **Component Information**

Acetyl-L-carnitine Hydrochloride - 5080-50-2 LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

#### LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.
Inhalation Ingestion	May cause irritation of respiratory tract. Health injuries are not known or expected under normal use.
Aspiration hazard	No information available
Delayed and immediate effects as	well as chronic effects from short and long-term exposure
Chronic Toxicity	No information available
Sensitization:	No information available
Mutagenic Effects:	No information available
Product code: A1583	Product name: ACETYL-L-CARNITINE

**HYDROCHLORIDE** 

## Carcinogenic effects:

#### Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Acetyl-L-carnitine Hydrochloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available
Specific Target Organ Toxicity	
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Target Organs:	No information available

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available
Mobility:	No information available

#### **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Acetyl-L-carnitine Hydrochloride	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

## **14. TRANSPORT INFORMATION**

UN-No:	Not Regulated
Proper Shipping Name:	No information
Hazard Class:	No information
Subsidiary Risk:	No information
Packing Group:	None
ERG No:	No information
Marine Pollutant	No data availat
DOT RQ (lbs):	No information

#### TDG (Canada)

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Description:** 

#### ADR

UN-No:	Not Regulated
Proper Shipping Name:	No information availa
Hazard Class:	No information availa
Packing Group:	No information availa
Subsidiary Risk:	No information availa
Classification Code:	No information availa
Description:	No information availa
<b>CEFIC Tremcard No:</b>	No information availa

#### IMO / IMDG

UN-No: **Proper Shipping Name:** Hazard Class: **Subsidiary Risk:** Packing Group: **Description:** IMDG Page: Marine Pollutant MFAG: **Maximum Quantity:** 

#### RID

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Classification Code: Description:** 

#### **ICAO**

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Description:** 

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Not Regulated No information available No information available No information available No information available No information available

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Not Regulated

No information available No information available

Not Regulated

No information available No information available

Not Regulated

No information available No information available No information available No information available No information available

#### ΙΑΤΑ

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available

# 15. REGULATORY INFORMATION

#### **International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Acetyl-L-carnitine Hydrochloride	Not Listed	Not present	Not present	Present (2)- 2756	Present	Not present	Not present

#### **U.S. Regulations**

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
			TOXICITY	TOXICILY.
Acetyl-L-carnitine Hydrochloride	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

•	Substances and their	Section 302 Extremely Hazardous Substances and TPQs	Hazardous	Chemical Category	Section 313 - Reporting de minimis
Acetyl-L-carnitine Hydrochloride	None	None	None	None	None

#### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Acetyl-L-carnitine Hydrochloride	Not Applicable	Not Applicable

#### Canada

#### WHMIS hazard class:

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Acetyl-L-carnitine Hydrochloride	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting	
Acetyl-L-carnitine Hydrochloride	Not listed	Not listed	

#### **EU Classification**

# $\frac{\text{R-phrase(s)}}{\text{R-phrase(s)}}$

# S -phrase(s) none

Components	Classification	Concentration Limits:	Safety Phrases
Acetyl-L-carnitine Hydrochloride		No information	

#### The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None.

# **16. OTHER INFORMATION**

#### **16. OTHER INFORMATION**

Revision Date: Prepared by: 04/21/2015 Sonia Owen

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**