

# Material Safety Data Sheet

## (Acetyl-L-Carnitine HCL)



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DATE PREPARED: 6/19/2009  
REVISION NUMBER: 6/19/2009  
EMERGENCY NUMBER:  
CHEMTREC: 1-800-424-9300

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME** Acetyl-L-Carnitine HCL  
**SYNONYM** ALCAR, ALC, (R)-3-Acetoxy-4-(trimethylammonio)butyratehydrochloride  
**FORMULA** C<sub>9</sub>H<sub>17</sub>NO<sub>4</sub> · HCl  
**CAS NUMBER** 5080-50-2

### SECTION 2 – COMPOSITON/INFORMATION ON INGREDIENTS

PRODUCT NAME	CAS NUMBER	PURITY
Acetyl-L-Carnitine HCL	5080-50-2	100%

### SECTION 3- HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Irritant

#### HMIS Classification

**Health Hazard:** 2

**Flammability:** 0

**Physical hazards:** 0

#### NFPA Rating

**Health Hazard:** 2

**Fire:** 0

**Reactivity Hazard:** 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

### SECTION 4 – FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

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### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## SECTION 5 – FIRE FIGHTING MEASURES

### **Flammable properties**

Flash point no data available

Ignition temperature no data available

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

### **Environmental precautions**

Do not let product enter drains.

### **Methods for cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## SECTION 7- HANDLING AND STORAGE

### **Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **Storage**

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place. hygroscopic Store under inert gas.

## SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### **Personal protective equipment**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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### Hand protection

Handle with gloves.

### Eye protection

Safety glasses

### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form powder  
Colour white

### Safety data

pH no data available  
Melting point 194 °C (381 °F)  
Boiling point no data available  
Flash point no data available  
Ignition temperature no data available  
Lower explosion limit no data available  
Upper explosion limit no data available  
Water solubility no data available

## SECTION 10 – STABILITY AND REACTIVITY DATA

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

Avoid moisture.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Irritation and corrosion

no data available

### Sensitisation

no data available

### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as

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a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

## SECTION 12 – ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

no data available

### Further information on ecology

no data available

## SECTION 13 – DISPOSAL CONSIDERATION

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14 - TRANSPORTATION DATA

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## SECTION 15 – REGULATORY INFORMATION

### OSHA Hazards

Irritant

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Acetyl-L-carnitine chloride(L-o-acetylcarnitine) CAS-No. 5080-50-2

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### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the

threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Acetyl-L-carnitine chloride(L-o-acetylcarnitine)	CAS-No. 5080-50-2	Revision Date
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### New Jersey Right To Know Components

Acetyl-L-carnitine chloride(L-o-acetylcarnitine)	CAS-No. 5080-50-2	Revision Date
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### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## SECTION 16 – OTHER INFORMATION

### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.