

## 1 - Identification

Product name	Coenzyme Q10
Pharmacopoeia name	Ubidecarenone
CAS Number	303-98-0
EINECS Number	206-147-9
Chemical formula	C59H90O4
Address	Ingredients To Die For, 11110 Metric Blvd, Ste D, Austin, TX 78758
Phone	512-535-2711
Emergency Phone	Chemtrec Emergency Hotline: 800-424-9300 (US and Canada)

## 2 - Hazard(s) Identification

Classification of the substance	The product is not classified hazardous according to the Regulation (EC) 1272/2008 and the Council Directives 67/548/EEC and 1999/45/EEC.
Inhalation	Not a primary route of entry. Mists and vapors may cause dizziness.
Eye contact	May cause slight irritation. Irrigate the eye with water. Seek medical attention if symptoms persist.
Skin contact	Not skin irritant.
Ingestion	No specific hazard known. Coenzyme Q10 can be consumed up to 5-10 mg/d through food products.

## 3 - Composition/Information on Ingredients

### Composition and Information on Ingredients

Name	Ubidecarenone
CAS No.	303-98-0
EC-No.	206-147-9
Toxicological data on ingredients	Acute toxicity: LD50>4000 mg/kg [oral, rat]; LD50>8000 mg/kg [oral, dog].

## 4 - First-Aid Measures

### Description of first aid measures

#### Eye contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

#### Skin contact

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

#### Serious skin contact

Not available.

#### Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### Serious inhalation

Not available.

#### Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms appear.

#### Serious ingestion

Not available.

## 5 - Fire-Fighting Measures

### Firefighting measures

#### Flammability of the product

May be combustible at high temperature

#### Auto-ignition temperature

Not available.

#### Flash points

Not available.

#### Flammable limits

Not available.

#### Products of combustion

These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire hazards in presence of various subst:** Slightly flammable to flammable in presence of heat.

#### Explosion hazards in presence of various substances

Risks of explosion of the product in

presence of mechanical impact

Not available.

Risks of explosion of the product in

presence of static discharge

Not available.

#### Firefighting media and instructions

SMALL FIRE

Use DRY chemical powder.

LARGE FIRE

Use water spray, fog or foam. Do not use water jet.

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**Special hazards**

As with most organic solids, fire is possible at elevated temperatures. Consider dust explosion hazard-formation of acrid smoke and respiratory irritant fumes when heated to decomposition.

**Protection of firefighters**

Precipitate gases/vapors/mists with water spray.

## 6 - Accidental Release Measures

**Environmental protection**

Do not allow to enter drains or waterways. Nontoxic and biodegradable, but very slow biodegradation due to low water solubility. Strong dyeing effect.

**Methods for cleaning up**

Collect solids (avoid dust formation) and hand over to waste removal.

## 7 - Handling and Storage

**Handling**

Technical measures: Processing in closed systems; avoid dust formation; consider dust explosion hazard; take precautionary measures against

Suitable materials: Stainless steel, aluminum, glass, polyethylene and enamel.

**Storage**

Store in tightly closed original container, protected from light, in a dry place at low temperature (<25 C).

Packaging materials: Tightly closing material, stainless steel, aluminum, glass, polyethylene.

## 8 - Exposure Controls/Personal Protection

**Personal protective equipment**

Respiratory protection not necessary during normal operations. In case of very high dust concentrations: particle mask or respirator with independent air supply.

**Respiratory protection**

Required when vapors/aerosols are generated.

**Eye protection**

Required (safety glasses)

**Hand protection**

Protective gloves

**Remarks**

Strong skin discoloration on contact.

## 9 - Physical and Chemical Properties

### Physical and Chemical Properties

<b>Melting Point</b>	About 48 C (124 F)
<b>Boiling Point</b>	Not determined.
<b>Vapor Pressure</b>	Not determined.
<b>Vapor Density</b>	Not determined.
<b>Molecular Weight</b>	863.37 g/mole
<b>Particle Size</b>	80 mesh
<b>Density</b>	About 0.5 g/ml
<b>Solubility in water</b>	Insoluble
<b>Appearance &amp; Color</b>	Yellow or orange crystalline powder

## 10 - Stability and Reactivity

<b>Stability</b>	Stable under the conditions mentioned in section 7.
<b>Conditions to avoid</b>	Air; light; humidity
<b>Materials to avoid</b>	Atmospheric oxygen, oxidizing agents, strong acids, strong bases, reducing agents, metal salts, compounds rich in oxygen
<b>Note</b>	Auto-oxidation in the presence of atmospheric oxygen

## 11 - Toxicological Information

### Toxicological Information

<b>Routes of Entry</b>	Ingestion
<b>Toxicity to Animals</b>	Acute toxicity: LD50>4000 mg/kg [oral, rat]; LD50>8000 mg/kg [oral, dog].
<b>Chronic Effects on Humans</b>	There are no indications of significant adverse effects related to CoQ10 in the publicly available literature.
<b>Other Toxic Effects on Humans</b>	There are no indications of significant adverse effects related to CoQ10 in the publicly available literature.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	There are no indications of significant adverse effects related to CoQ10 in the publicly available literature.

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**Special Remarks on other Toxic Effects on Humans**

Acute Potential Health Effects:

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: There are no indications of significant adverse effects related to CoQ10 in the publicly available literature.

## 12 - Ecological Information

**Biodegradability** Inherently biodegradable

**Ecotoxicity**

Barely toxic for fish (rainbow trout) NOEL 1000 mg/l

Barely toxic for microorganisms (activated sludge) NOEL (28 days) 30 mg/l (MITI Test II, OECD No. 302C)

**WGK Classification** Not hazardous

## 13 - Disposal Considerations

**Waste Disposal**

Waste must be disposed of in accordance with national and local environmental control regulations.

## 14 - Transport Information

**Transport Information**

**General** Not regarded as hazardous material

**DOT Classification** Not a DOT controlled material (United States)

**IATA Classification** They are considered to be non-dangerous by the 57th IATA Dangerous Goods Regulations and it is not restricted as per Special Provision A3.

**Identification** Not applicable.

**Special Provisions for Transport** Not applicable.

## 15 - Regulatory Information

<b>Federal and State Regulations</b>	TSCA 8(b) inventory: Ubidecarenone
<b>Other Regulations</b>	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
<b>Other Classifications</b>	
<b>WHMIS (Canada)</b>	Not controlled under WHMIS (Canada).
<b>DSCL (EEC)</b>	This product is not classified according to the EU regulations.
<b>HMIS (USA)</b>	
Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	E
<b>National Fire Protection Association (USA)</b>	
Health	1
Flammability	1
Reactivity	0
<b>Protective Equipment</b>	Gloves, lab coat, dust respirator (be sure to use an approved/certified respirator or equivalent), safety glasses.

## 16 - Other Information

<b>Other Information</b>	
<b>References</b>	Not available.
<b>Other Special Considerations</b>	Not available.
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of	
<b>Revision Date</b>	09/06/16
<del>should make their own investigations to determine the suitability of the information for their particular purposes.</del>	

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## Safety Data Sheet

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