



## Materials Safety Data Sheet (MSDS)

according to Regulation (EU) No 453/2010

### COENZYME Q<sub>10</sub>

Revision date: 2022/01/03

Version: 3.7

#### Section 1: Product and Company Identification

Product name	Coenzyme Q <sub>10</sub>
Pharmacopoeia Name	Ubidecarenone
CAS Number	303-98-0
EINECS Number	206-147-9
Chemical Formula	C <sub>59</sub> H <sub>90</sub> O <sub>4</sub>
Company Information	Inner Mongolia Kingdomway Pharmaceutical Limited Tuoketuo Industrial Park, Hohhot, Inner Mongolia, China Tel: 0086 471 8660088 Fax: 0086 471 8660099

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#### Section 2: Hazard 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 eye with water. Seek medical attention if symptoms persist.

##### Skin contact

Not skin irritant.

##### Ingestion

No specific hazard known. Coenzyme Q<sub>10</sub> can be consumed up to 5-10 mg/d through food products.

#### Section 3: Composition and Information on

##### Ingredients

Name	CAS No.	EC-No.
Ubidecarenone	303-98-0	206-147-9

##### Toxicological Data on Ingredients:

Acute toxicity: LD<sub>50</sub>>4000 mg/kg [oral, rat]; LD<sub>50</sub>>8000 mg/kg [oral, dog].

#### Section 4: 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.

#### Section 5: Fire-Fighting 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 substances

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.

##### Fire fighting media and instructions

SMALL FIRE: Use DRY chemical powder.

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

##### 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 fire-fighters

Precipitate gases/ vapors/ mists with water spray.

#### Section 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.

#### **Section 7: Handling and Storage**

##### **Handling**

Technical measures: Processing in closed systems; avoid dust formation; consider dust explosion hazard; take precautionary measures against electrostatic charging; local exhaust ventilation necessary.

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

##### **Storage**

Store in tightly closed original container, protected from light, in a dry place at low temperature ( $\leq 25^{\circ}\text{C}$ ).

#### **Section 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.

#### **Section 9: 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>	863.37g/mole
<b>Particle Size</b>	80mesh
<b>Density</b>	about 0.5g/ml
<b>Solubility in water</b>	insoluble
<b>Appearance &amp; Odor</b>	yellow or orange crystalline powder

#### **Section 10: Stability and Reactivity Data**

##### **Stability**

Stable under the conditions mentioned in chapter 7.

##### **Conditions to avoid**

air; light; humidity

##### **Materials to avoid**

Atmospheric oxygen, oxidizing agents, strong acids,

strong bases, reducing agents, metal salts, compounds rich in oxygen

##### **Note**

Auto-oxidation in the presence of atmospheric oxygen

#### **Section 11: Toxicological Information**

##### **Routes of Entry**

Inhalation. Ingestion.

##### **Toxicity to Animals**

Acute toxicity: LD<sub>50</sub>>4000 mg/kg [oral, rat]; LD<sub>50</sub>>8000 mg/kg [oral, dog].

##### **Chronic Effects on Humans**

Not available.

##### **Other Toxic Effects on Humans**

Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

##### **Special Remarks on Toxicity to Animals**

Not available.

##### **Special Remarks on Chronic Effects on Humans**

May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data

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

Acute Potential Health Effects:

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause hypermotility, diarrhea; may affect behavior/central nervous system (somnolence), may affect respiration (dyspnea).

#### **Section 12: Ecological Information**

##### **Biodegradability**

Inherently biodegradable

##### **Ecotoxicity**

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

Barely toxic for microorganisms (activated sludge) NOEL (28days) 30mg/l

(MITI TEST II, OECD NO. 302C)

##### **Air pollution**

Observe local/ national regulations

##### **WGK Classification**

Class 3

#### **Section 13: Disposal Considerations**

##### **Waste Disposal**

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

#### **Section 14: Transport Information**

##### **DOT classification**

Not a DOT controlled material (United States).

Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR).

No hazardous material as defined by the transport regulations.

**IATA Classification**

They are considered to be non-dangerous by the 63th IATA Dangerous Goods Regulations and it is not restricted as per SPECIAL PROVISION A3

**Suggestion according to IMO IMDG Code**

The substance is not subject to IMO IMDG Code.

**Section 15: Other Regulatory Information**

**Federal and State Regulations**

TSCA 8(b) inventory: Ubidecarenone

**Other Regulations**

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

IECIC: This product is on the Inventory of Existing Cosmetic Ingredients in China.

**Other Classifications**

**WHMIS (Canada)**

Not controlled under WHMIS (Canada).

**DSCL (EEC)**

This product is not classified according to the EU regulations.

Not applicable.

**HMIS (U.S.A.)**

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

**Protective Equipment**

Gloves, lab coat, dust respirator (be sure to use an approved/ certified respirator or equivalent), safety glasses.

**Section 16: Other Information**

**References**

Not available.

**Other Special Considerations**

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 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.