

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, CO₂).

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

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

10 - Stability and Reactivity

Stability	Stable under the conditions mentioned in section 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

11 - Toxicological Information

Toxicological Information

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

Federal and State Regulations

TSCA 8(b) inventory: Ubidecarenone

Other Regulations

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

Other Classifications

WHMIS (Canada)

Not controlled under WHMIS (Canada).

DSCL (EEC)

This product is not classified according to the EU regulations.

HMIS (USA)

Health Hazard 1

Fire Hazard 1

Reactivity 0

Personal Protection E

National Fire Protection Association (USA)

Health 1

Flammability 1

Reactivity 0

Protective Equipment

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

16 - Other Information

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

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~~should make their own investigations to determine the suitability of the information for their particular purposes.~~

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(SDS)

Safety Data Sheet

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