XIAMEN KINGDOMWAY BIOTECH. CO., LTD.

Materials Safety Data Sheet (MSDS)

according to Regulation (EU) No 453/2010

COENZYME Q_{10} POWDER 6% CWD

Revision date : 2022/01/02 Version:3.4

Section 1: Product and Company Identification

Product name	Coenzyme Q_{10} Powder 6% CWD
Pharmacopoeia Name	Ubidecarenone
CAS Number	303-98-0
EINECS Number	206-147-9
Chemical Formula	$C_{59}H_{90}O_4$
Company Information	Xiamen Kingdomway Biotech. Co., Ltd. No. 299 West Yangguang Road, Haicang, Xiamen 361022, China Tel: 0086 592 5200446 Fax: 0086 592 5207777

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 Q10 can be consumed up to 5-10 mg/d through food products.

Section 3: Composition and Information on Ingredients

Name	Content	CAS No.	EC-No.
Ubidecarenone	6%	303-98-0	206-147-9

Toxicological Data on Ingredients:
Acute toxicity: LD_{50}>4000 mg/kg [oral, rat]; LD_{50}>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_2).
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

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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, plyethylene 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, aluminium, glass, polyethylene.

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

Appearance & Odor	Yellow to orange yellow flowing powder, no odor
Molecular Weight	863.37g/mole
Particle Size	>90% go through the sieve of 60 mesh
Density	about 0.5g/ml
Solubility in water	Easily dispersed in cold water 15°C to form a homogeneous and stable emulsion

Section 10: Stability and Reactivity Date

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_{50}>4000 mg/kg [oral, rat]; LD_{50}>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

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 61th IATA Dangerous Goods Regulations and it is not restricted as per SPECIAL PROVISION A3
Suggestion according to IMO IMDG Code

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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.
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.

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