

# Material Safety Data Sheet

## CoenzymeQ10

### \*\*\*\* SECTION 1 IDENTIFICATION \*\*\*\*

**Product Name:** Coenzyme Q10

**Chemical Name:** Ubidecarenone

**Molecular Formula:** C<sub>59</sub>H<sub>90</sub>O<sub>4</sub>

**Molecular Weight:** 863.36

**CAS NO.:**303-98-0

**Company Identification:** ASES CHEMICAL WORKS

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### \*\*\*\* SECTION 2 - HAZARDS IDENTIFICATION \*\*\*\*

#### General

Non hazardous and non combustible.

#### Inhalation

Not a primary route of entry. Mists and vapors may cause dizziness (alcohol).

#### 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.

### \*\*\*\* SECTION 3- 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 4 - 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 Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures

**Special Remarks on Explosion Hazards:** Not available.

\*\*\*\* SECTION 5 - 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 6 - 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**

Storage conditions: cool; protected from light; protected from humidity. Validity: 24month, 5-15°C, in the unopened original container, see “best used before” date stated on the label, after opening the container, the contents should be used within a short period.

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

\*\*\*\* SECTION 7 - 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 8- PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

**Physical state and appearance:** Solid (Free Flowing Powder)

**Odor:**No odor

**Taste:** Not available

**Molecular Weight:** 863.36 g/mole \*

**Color:**Yellow or orange

**PH(1% soln/water):** Not available

**Boiling Point:** Not available

**Melting Point:** Not available

**Density:**Not available

**Particle Size:**NLT 90% go through the sieve of 60 mesh

**Odor Threshold:** Not available

**Water/Oil Dist. Coeff.:** Not available

**Ionicity (in Water):** Not available

**Dispersion Properties:** Not available

**Solubility:** Easily dispersed in cold water 15°C to form a homogeneous and stable emulsion

\*\*\*\* SECTION 9 - STABILITY AND REACTIVITY \*\*\*\*

**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 10 - TOXICOLOGICAL INFORMATION \*\*\*\*

**Routes of Entry**

Inhalation. Ingestion.

**Toxicity to Animals**

Acute toxicity: LD50>4000 mg/kg [oral, rat]; LD50>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 11 - 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 12 - DISPOSAL CONSIDERATIONS \*\*\*\*

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

\*\*\*\* SECTION 13 - TRANSPORT INFORMATION \*\*\*\*

**General**

Not regarded as hazardous material

**DOT Classification**

Not a DOT controlled material (United States).

**Identification**

Not applicable.

**Special Provisions for Transport**

Not applicable.

\*\*\*\* SECTION 14 - 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.