

Website: www.a-uco.com Tel.: 0086-411-82288674

MATERIAL SAFETY DATA SHEET

1. Identification of the Substance and of the Company

1.1 Product identifiers

Product name : Coenzyme Q-10 Synonyms Ubiquinone-10

CAS-No.: 303-98-0 EC number: 206-147-9 Molecular Formula C₅₉H₉₀O₄

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company: Aurora Industry Co., Ltd.

Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

Telephone: 0411-82288674

2. Hazards Identification

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements

None required

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

3. Composition/Information on Ingredients

3.1. Substances

Component	CAS	EC No	We	CLP Classification -
	No		ight	According to
			%	GB-CLP Regulations
				UK SI 2019/720 and
				UK SI 2020/1567



Website: www.a-uco.com Tel.: 0086-411-82288674

2,5-Cyclohexadiene-1,4-dione,	303-98-	EEC	>95	
2-(3,7,11,15,19,23,27,31,35,39-	0	No.		
decamethyl		206-14		
-2,6,10,14,18,22,26,30,34,38-tet		7-9		
racontadec				
aenyl)-5,6-dimethoxy-3-methyl-				
, (all-E)-				

REACH registration number	-

Full text of Hazard Statements: see section 16

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get

medical attention if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if

symptoms occur.

Self-Protection of the First Aider No special precautions required.

4.2. Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO2).

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



Website: www.a-uco.com Tel.: 0086-411-82288674

6. Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
- 6.2 Environmental precautions
 Should not be released into the environment. See Section 12 for additional Ecological Information.
- 6.3 Methods and materials for containment and cleaning up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.
- 6.4 Reference to other sections
 Refer to protective measures listed in Sections 8 and 13.

7. Handling and Storage

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Store in freezer. Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Class 11

7.3. Specific end use(s)

Use in laboratories

8. Exposure Controls/Personal Protection

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL) No information available



Website: www.a-uco.com Tel.: 0086-411-82288674

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles)

(European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough	Glove	EU standard	Glove
	time	thickness		comments
Nitrile rubber	See	-	EN 374	(minimum
Neoprene	manufacturers			requirement)
Natural rubber	recommendations			
PVC				

Skin and body protection Long sleeved clothing.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity,

Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection No protective equipment is needed under normal use

conditions.

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136

approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced Recommended Filter type: Particle filter

Small scale/Laboratory use Maintain adequate ventilation

Environmental exposure controls No information available.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State Solid

Appearance

Odor Odorless

Odor Threshold No data available



Website: www.a-uco.com Tel.: 0086-411-82288674

Melting Point/Range 49 °C / 120.2 °F Softening Point No data available

Boiling Point/Range No information available Flammability (liquid) Not applicable Solid Flammability (solid,gas) No information available

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition Temperature No data available
Decomposition Temperature No data available

pH No information available
Viscosity Not applicable Solid

Water Solubility Insoluble

Solubility in other solvents

No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure

Density / Specific Gravity

Bulk Density

No data available

No data available

Vapor Density Not applicable Solid

Particle characteristics No data available

9.2. Other information

Molecular Formula C59 H90 O4

Molecular Weight 863.37

Evaporation Rate Not applicable - Solid

10. Stability and Reactivity

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



Website: www.a-uco.com Tel.: 0086-411-82288674

Product Information (a) acute toxicity;

Oral Based on available data, the classification criteria are not met

Dermal No data available
Inhalation No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,5-Cyclohexadiene-1,4-dione,	>20000 mg/kg	-	-
2-(3,7,11,15,19,23,27,31,35,39-d	(Mouse)		
ecamethyl-2,6,10,14,18,22,26,30			
,34,38-tetracontadecaenyl)-5,6-d			
imethoxy-3-methyl-, (all-E)-			

(b) skin corrosion/irritation;(c) serious eye damage/irritation;No data available

(d) respiratory or skin sensitization;

Respiratory
Skin
No data available

There are no known carcinogenic

chemicals in this product

(g) reproductive toxicity;
(h) STOT-single exposure;
(i) STOT-repeated exposure;
No data available
No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable

Solid

Other Adverse Effects The toxicological properties have not

been fully investigated.

No information available.

Symptoms / effects, both acute and delayed

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties

for human health. This product does not

contain any known or suspected

endocrine disruptors.

12. Ecological Information

12.1. Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the

environment or that are not degradable in waste water

treatment plants.

12.2. Persistence and degradability

Persistence Insoluble in water.



Website: www.a-uco.com Tel.: 0086-411-82288674

12.3. Bioaccumulative potential May have some potential to bioaccumulate

12.4. Mobility in soil Spillage unlikely to penetrate soil Is not likely

mobile in the environment due its low water

solubility.

12.5. Results of PBT and vPvB assessment

No data available for assessment.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or

suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant This product does not contain any known or

suspected substance

Ozone Depletion Potential This product does not contain any known or

suspected substance

13. Disposal Considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport Information

IMDG/IMO Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group

ADR Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)



Website: www.a-uco.com Tel.: 0086-411-82288674

14.4. Packing group

IATA Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards

No hazards identified

14.6. Special precautions for user

No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments Not applicable, packaged goods

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS	EINECS	ELINC	NL	IEC	TC	KEC	EN	ISH
	No		S	P	SC	SI	L	CS	L
2,5-Cyclohexadiene-1,	303-98	206-147	-	-	X	X	KE-0	-	-
4-dione,2-(3,7,11,15,1	-0	-9					9397		
9,23,27,31,35,39-deca									
methyl-2,6,10,14,18,2									
2,26,30,34,38-tetracon									
tadecaenyl)-5,6-dimet									
hoxy-3-methyl-,									
(all-E)-									

G .	C.4	TC	TOGAL	DC	NID	А.Т) I/ZI	DICC
Component	CA	TS	TSCA Inventory	DS	ND	AI	NZIo	PICC
	S	CA	notification - Active-	L	SL	CS	C	S
	No		Inactive					
2,5-Cyclohexadiene-1,4	303-	X	ACTIVE	-	X	-	X	X
-dione,2-(3,7,11,15,19,	98-0							
23,27,31,35,39-decame								
thyl-2,6,10,14,18,22,26,								
30,34,38-tetracontadeca								
enyl)-5,6-dimethoxy-3-								
methyl-, (all-E)-								



Website: www.a-uco.com Tel.: 0086-411-82288674

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH	REACH	REACH Regulation
		(1907/2006) -	(1907/2006)	(EC
		Annex XIV -	-Annex XVII	1907/2006) article
		Substances	-Restrictions	59 - Candidate List
		Subject to	on Certain	of Substances of
		Authorization	Dangerous	Very High
			Substances	Concern (SVHC)
(3,7,11,15,19,23	303-98-0			
,27,31,35,39-de				
camethyl-2,6,10				
,14,18,22,26,30,				
34,38-tetraconta				
decaenyl)-5,6-di				
methoxy-3-met				
hyl-, (all-E)-				

Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive	Seveso III Directive
		(2012/18/EC) -	(2012/18/EC) -
		Qualifying	Qualifying
		Quantities for Major	Quantities for
		Accident	Safety Report
		Notification	Requirements
2,5-Cyclohexadiene-1,4-dio	303-98-0	Not applicable	Not applicable
ne,2-(3,7,11,15,19,23,27,31,			
35,39-decamethyl-2,6,10,14			
,18,22,26,30,34,38-tetracont			
adecaenyl)-5,6-dimethoxy-3			
-methyl-, (all-E)-			

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment



Website: www.a-uco.com Tel.: 0086-411-82288674

WGK Classification

Water endangering class = 3 (self classification)

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

16. Other Information

Further information

Copyright 2020 Aurora Industry Co.,Ltd.. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aurora Industry Co.,Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered.