

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product name: Q-Max (Coenzyme Q10)  
Use: cosmetic active ingredient  
US Chemtrec phone: (800)-424-9300

### 2. Hazards identification

#### Emergency Overview

Form clear liquid  
Color reddish

#### Potential Health Effects

Exposure: Inhalation, Ingestion, Skin contact, Eye contact  
Acute Effects: No adverse effects known  
Chronic Effects: No adverse effects known  
Carcinogenicity: Formulation not listed by NTP, IARC or OSHA

### 3. Composition/Information on ingredients

Characterization Coenzyme Q10 and Vitamin E acetate, dissolved in a cosmetic carrier oil; cosmetic active ingredient

Chemical name 2-[(all-E)-3,7,11,15,19,23,27,31,35,39-Decamethyl-2,6,10,14,18,22,26,30,34,38-tetracontadecaeny]-5,6-dimethoxy-3-methyl-2,5-cyclohexadiene-1,4-dione \*1

Ingredients	Concentration
Coenzyme Q10	~ 7.5%
CAS: 303-98-0	~10%

\*1 referring to: Coenzyme Q10

### 4. First-aid measures

Eye contact Rinse immediately with tap water for 10 minutes - open eyelids forcibly  
Consult a physician if irritation persists

Skin contact Remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents  
Consult a physician if skin irritation persists

Inhalation Remove the casualty to fresh air and keep him/her calm  
In the event of symptoms get medical treatment

Note to physician - treat symptomatically

## 5. Fire-fighting measures

Suitable extinguishing media	Foam, powder, carbon dioxide
Flash point (liquid)	> 100 °C
Unsuitable extinguishing media	Use water spray for cooling purposes only (fat explosion hazard)
Protection of fire-fighters	Precipitate gases/vapors/mists with water spray

## 6. Accidental release measures

Environmental protection	Do not allow to enter drains or waterways
Methods for cleaning up	Collect spills with inert adsorbent and hand over to waste removal Clean contaminated areas with little ethanol

## 7. Handling and storage

### Handling

Technical measures	Take precautionary measures against electrostatic charging
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### Storage

Storage conditions	Below 25 °C Protected from light and humidity
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## 8. Exposure controls/Personal protection

Engineering Measures	See 7.
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### Personal protective equipment

Respiratory protection	Respiratory protection not necessary during normal operations
Hand protection	Protective gloves (eg made of NR Natural Rubber, NBR Acrylnitril-Butadien-Rubber)
Eye protection	Safety glasses

## 9. Physical and chemical properties

Color	Reddish
Form	Clear liquid
Solubility	Soluble, oils Insoluble, water

## 10. Stability and reactivity

Conditions to avoid	Heat, light, humidity
Materials to avoid	Air Oxidizing agents *2 Bases, strong acids *2

\*2 referring to: dl- $\alpha$ -Tocopheryl acetate

## 11. Toxicological information

Acute toxicity	LD50	> 4'000	mg/kg	(oral, rat)	*2
	LD50	> 5'000	mg/kg	(oral, rat)	*1
	NOEL	4'000 mg/kg		(oral, rat)	*1
Local effects	eye:	non-irritant (rabbit)			*2
	skin:	may be slightly irritating (several species)			*2
	skin:	non-irritant (rabbit)			*1
Sensitization		non-sensitizing (guinea pig)			*1
Chronic toxicity	TD <sub>10</sub>	> 1200 mg/kg/d (oral, rat; 52 weeks)			*1
Mutagenicity		not mutagenic (various test systems)			*2
		not mutagenic (Ames test)			*1
Carcinogenicity		not carcinogenic			*2
Reproduction toxicity		not teratogenic			*2
		not teratogenic (rat)			*1

\*1 referring to: Coenzyme Q10

\*2 referring to: dl- $\alpha$ -Tocopheryl acetate

## 12. Ecological information

Ready biodegradability	not readily biodegradable				
	17 %, 28 days (Manometric Respirometry Test, OECD No. 301 F)				*2
Inherent biodegradability	well inherently biodegradable				
	84 %, 28 days (MITI Test II, OECD No. 302 C)				*2
Ecotoxicity	barely toxic for fish (nominal concentration = 100 mg/l), no chronic toxic effects have been observed at or above solubility limit (rainbow trout)				
	NOEC (28 d) 100 mg/l (nominal concentration) (OECD No. 215, Fish Juvenile Growth Test)				*2
	barely toxic for planktonic crustaceans (nominal concentration = 100 mg/l), test performed with water accommodated fractions (Daphnia magna)				
	NOEC (48 h) 100 mg/l (nominal concentration) EC <sub>50</sub> (48 h) > 100 mg/l (nominal concentration) (OECD No. 202)				*2
	the inhibitory concentration relates to reattachment to substrate (Dreissena polymorpha) MIC (48 h) > 50 mg/l (nominal concentration)				*2

\*2 referring to: dl- $\alpha$ -Tocopheryl acetate

## 13. Disposal considerations

Waste from residues	observe local/national regulations regarding waste disposal large amounts: incinerate in qualified installation with flue gas scrubbing RCRA waste - not regulated under RCRA
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## 14. Transport information

DOT/TDG Remark: Note	not regulated for transport under DOT, TDG, IATA, or IMDG. not classified as hazardous under DOT, IATA, IMDG
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## 15. Regulatory information

US Regulations	Law: hazardous chemical reporting: community right-to know Common name: SARA title 312 Agency: Environmental Protection Agency EPA Criteria met: non-hazardous
US and CAN hazard Classification	No components are listed in the WHMIS IDL. Components of this product are identified on the Canadian Domestic Substance List or the Non-Domestic Substance List. This product is not considered hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard) and is not a controlled product under the Canadian Controlled Products Act. None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).
TSCA Status	All ingredients are on the TSCA Inventory
Reporting Requirements	The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material. In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEP Hotline (1-877-WARN-DEP) and to local officials. State and local regulations vary and may impose additional reporting requirements.

## 16. Other information

Canada update -	This MSDS has been reviewed on 10/12/2006 for compliance with Canadian regulation
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**Definitions:** ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. DSL = Canadian Domestic Substance List. DOT= Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA= International Air Transport Association. IMDG= International Maritime Dangerous Good. IOEL = Roche/ DSM developed Internal Occupational Exposure Limit. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NA = Not available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.

**Disclaimer:** The information contained herein is believed to be accurate at the time of publishing and is offered in good faith. This information relates only to the specific material designated and may not be valid for such material in combination with any other materials or in any process. Mixing this product with any other materials may change the characteristics such as flash point, flammability, or health effects. Because the product use is beyond the control of the authoring body, no warranty is given, express or implied.