



SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS REVISION #: 005

PRODUCT NAME: UBIDECARENONE "MGCC"
SYNONYMS: Coenzyme Q10; Ubiquinone-50; Ubiquinone-10; 2,5-cyclohexadiene-1,4-dione, 2-(3, 7, 11, 15, 19, 23, 27, 31, 35, 39-decamethyl-2, 6, 10, 14, 18, 22, 26, 30, 34, 38-tetracontadecaenyl)-5, 6-dimethyl-3-methyl-, (all-E)
MANUFACTURED BY: Mitsubishi Gas Chemical Company, Inc. Mitsubishi Building, 5-2 Marunouchi 2-chome Chiyoda-ku, Tokyo 100-8324, Japan
PHONE NUMBERS: Inquiries - 81-3-3283-4772 (Japan)

SECTION 2 - HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Product is an odorless, yellow to orange powder with no known hazards. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

*

This material is not considered a hazardous chemical under OSHA HazCom (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

There are no adverse effects known or expected from handling or use of this product.

CHRONIC EFFECTS/CARCINOGENICITY:

This product (or component) is not listed in IARC Monographs, the NTP Eleventh Annual Report or the ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.



Material Safety Data Sheet

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>%</u>	<u>CAS No.</u>
Coenzyme Q10	>98	303-98-0

SECTION 4 - FIRST AID MEASURES

EYE CONTACT:

Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

SKIN CONTACT:

Wash exposed area with soap and water.

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use water fog, dry chemical, foam or carbon dioxide

PROTECTION OF FIREFIGHTERS:

Wear full protective clothing and self-contained breathing apparatus with full face-piece. Keep personnel removed from and upwind of fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Persons not wearing protective equipment should be excluded from the area of the spill until clean up has been completed. Shovel spilled material into containers. Thoroughly sweep up residual material and shovel into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Avoid exposing product to temperatures above 104° F (40°C) or light.

STORAGE:

Store in a dark place at temperatures between 34 and 86° F (1-30° C). Store away from materials that may contaminate this product.



Material Safety Data Sheet

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

No exposure limits established for product

ENGINEERING CONTROLS:

Not required under normal conditions of use.

EYE / FACE PROTECTION:

Wear safety glasses or splash goggles when handling any chemical substance.

SKIN PROTECTION:

Wear rubber gloves.

RESPIRATORY PROTECTION:

Not required under normal conditions of use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow to orange crystalline powder @ 77° F (25° C)

Odor: Odorless

Specific Gravity: 1.09 (crystal)

Vapor Pressure: Negligible

Vapor Density: Unavailable

Melting Point: 122-125° F (50-52° C)

Evaporation Rate: Negligible
(Ethyl Ether = 1)

Solubility in Water: Insoluble (1g/10,000 ml max @ 23-25° C)

Bulk Density: Unavailable

Volatile %: Nil

pH: Unavailable

Flash Point: Not applicable

Upper Explosion Limit: Unavailable

Lower Explosion Limit: Unavailable

Autoignition Temperature: Unavailable

SECTION 10 - STABILITY AND REACTIVITY

STABILITY (conditions to avoid):

Avoid high temperatures and light. Product will gradually be decomposed by light

INCOMPATIBILITIES (materials to avoid):

Unknown

DECOMPOSITION:

Unknown

HAZARDOUS POLYMERIZATION:

Not known to occur



SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ (rat) - greater than 5,000 mg/Kg
52-week chronic toxicity test: No toxicity at 1000 mg/kg/day
4-week Human Toxicity Test: No adverse effects at 900 mg/day
Mutagenicity (Ames test): negative
Mutagenicity (Chromosome aberration test): Negative
Mutagenicity (Micronucleus test): Negative

SECTION 12 - ECOLOGICAL INFORMATION

No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Incineration is the recommended disposal method for all chemical wastes; however, this material may be deposited in a landfill in accordance with all federal, state and local regulations.

This material is not considered a hazardous waste under current RCRA regulations.

SECTION 14 - TRANSPORT INFORMATION

Not regulated under current DOT (U.S.), TDG (Canadian), ICAO (air) or IMO (water) transport regulations.

SECTION 15 - REGULATORY INFORMATION

TSCA INFORMATION:

All components in this product are listed on the TSCA Inventory.

EINECS:

This product is listed on the European Inventory of Existing Chemical Substances (206-147-9).

Section 15 continued on next page



Material Safety Data Sheet

SECTION 15 - REGULATORY INFORMATION (continued)

SARA 313 INFORMATION:

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This information must be included in all MSDS that are copied and distributed for this material.

Components present in this product at a level that could require reporting under the statute are: None

SECTION 16 - OTHER INFORMATION

HAZARD RATING:

HEALTH	0	0 - LEAST
FIRE	1	1 - SLIGHT
REACTIVITY	0	2 - MODERATE
OTHER	-	3 - HIGH
		4 - EXTREME

HAZARD RATING METHOD: HMIS

REASON FOR REVISION:

Reviewed and updated. Changed format to comply with new ANSI Standard

The product information contained herein is believed to be accurate as of the date of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

****END OF REPORT****