

# Safety Data Sheet

Doc.: SDS-Q-11 Rev. 4

## 1. IDENTIFICATION

Product item code:

Product form: Edible powder containing vitamin K2 as MK-7
Product name: MenaQ7 PharmaPure 1000ppm MCC Powder

MenaQ7 PharmaPure 2000ppm MCC Powder

MenaQ7 PharmaPure 10,000ppm MCC Powder

NP-0299-10101

NP-0299-10103 NP-0299-10104

Intended use of substance: Food supplement

Company name and address: NattoPharma ASA, Lilleakerveien 2b, 0283 Oslo, Norway

**Telephone:** +47 40 00 90 08

#### 2. HAZARD IDENTIFICATION

Special information: None

Hazard classifications: Does not fall into any hazard classifications

Hazard pictograms: Not applicable

Non-classified hazards: Has potential to form dust explosion

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS	Concentration
Menaquinone-7	2124-57-4	0.1 - 1%
MCC powder	9004-34-6	98.5 - 99%
MCT oil	N/A	0.9 - 9%

None of the ingredients are classified as hazardous.

### 4. FIRST AID MEASURES

**General information:** In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

After skin contact: Wash with soap and water. Call a physician if symptoms develop or

persist.

Following eye contact: Rinse thoroughly with water. Get medical attention if symptoms

develop or persist.

After ingestion: Drink plenty of water. Never give anything by mouth to an unconcious

person. Persons receiving anticoagulant therapy, like warfarin or coumarins, should notify their physician. Product contains vitamin K which interferes with the biological activity of some anticoagulants.

Information to physician: Treat symptoms. Product has low, dermal, inhalation toxicity and is

non-irritating to eye and skin.



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## 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media:

Water spray. Carbon dioxide (CO2). Foam. Extinguishing powder.

#### Special hazards arising from chemical:

Dispersed powder in air has potential of creating dust explosion hazard. Minimize airborne dust generation and eliminate source of ignition.

## Special protective equipment and precautions for fire fighters:

Wear self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions:

Avoid dust formation or breathing dust. Dry and wet compound may be slippery.

#### Methods for containment and cleaning up:

Sweep up, collect and dispose appropriately. Avoid creating dust.

### 7. HANDLING AND STORAGE

#### Handling:

Avoid creating dust in confined spaces.

#### Storage:

Keep container tightly closed, may be stored in temperatures between 5 °C and 25 °C (RH: 30-50%). After opening the container, use as soon as possible or tightly close the container and store in refrigerator.

Store in dark. Store away from incompatible materials such as oxidizing agents and materials with high alkaline levels.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION EQUIPMENT

#### **Exposure limit values:**

 Substance:
 Cellulose

 CAS-No.:
 9004-34-6

 EC-No. (EINECS/ELINCS):
 232-674-9

 OEL(CA-QUEBEC, CA ONTARIO, NZ):
 10 mg/m³

**OEL(GB):** 10 mg/m³ inhalable aerosol; 4 mg/m³ respirable aerosol

**OEL(NZ):** 10 mg/m<sup>3</sup>

**OEL(US-OSHA):** 15 mg/m³ total dust; 5 mg/m³ respirable dust

Engineering controls: Use with local ventilation or respiratory protection required in the case

of dust formation.

Personal protection:

Respiratory protection: Half-mask with filter according to EN 149 when irritation or exposure

limits are exceeded.

**Hand protection:** No special protection required.

**Eye protection:** Dust protection goggles or safety glasses.

**Skin protection:** No special protection required.





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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to light yellow powder		
Odor	Odorless		
Odor threshold	No information available		
рН	5 - 7		
Melting point/freezing point	Not applicable		
Initial boiling temperature/ boiling range	Not applicable		
Flash point	Not determined		
Evaporation rate	Not applicable		
Flammability	Not applicable		
Lower explosion limit	Approx 30 g/m³		
Upper explosion level	Approx 11,000 g/m³		
Oxidizing characteristics	Not oxidizing		
Vapor pressure	Not determined		
Vapor density	Not applicable		

Density at 20°C	Approx 1.5 g/cm³		
Solubility in water	Insoluble		
Solubility in oil	Insoluble		
Partician coefficient (n-octanol/water)	Not determined		
Auto-ignition temp	Not available		
Decompostion temp	Approx 200°C		
Viscosity	Not applicable		
Solvent content	0%		
Package density	280 - 330 kg/m³		
Explosion hazard	Potential dust explosive		
Ignition temperature	Not determined		

## 10. STABILITY AND REACTIVITY

#### Chemical stability:

This product is stable when handled and stored in ambient conditions.

## Conditions to avoid:

Dust formation and static discharge.

## Hazardous decomposition products:

Sulphur dioxide. Burning causes obnoxious and toxic fumes.

#### Possible hazardous reactions:

None. Material will not polymerize.

### Incompatible materials:

None in particular.

## Additional information:

Protect from light exposure.



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## 11. TOXICOLOGICAL INFORMATION

#### Most likely routes of exposure:

Skin and inhalation.

#### Symptoms:

Potential irritation of respiratory tract or eyes. No known hazards by inhalation, skin or eye exposure.

#### Method:

Risk assessment based on values and information of ingredients found in literature.

Skin irritation	Non-irritating		
Eye irritation	Non-irritating		
Acute dermal	No indication		
Acute oral	> 5000mg/kg		
Inhalation	> 5.8mg/l/4hrs		
Sensitization	Not a sensitizer		
Mutagenicity	Not mutagenic		
Target organ effects	No indication		
Carcinogenicity	No indication		
Teratogenicity	No indication		

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity:**

Not expected to have significant environmental effects.

Microcrystalline cellulose LC50 > 100% for daphnia (48 hrs)

Rainbow trout 96 hrs Algae 96 hrs

Mobility:

No information available.

# Persistence and biodegradation:

Biodegradable.

# Bioaccumulative potential:

No indication of bio-accumulation potential.

# Results of PBT assessment:

This substance does not meet the criteria for classification as PBT or vPvB.

## Other harmful effects:

None known.

## Further ecological information:

Negative ecological effects are not expected.



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## 13. DISPOSAL CONSIDERATIONS

Appropriate disposal of product: waste disposal according to official state regulations.

## 14. TRANSPORT INFORMATION

Overland transport (ADR/RID):Not a hazardous material.Transport by sea (IMDG):Not a hazardous material.Air transport:Not a hazardous material.

### 15. REGULATORY INFORMATION

Novel Food: Approved.

## 16. OTHER INFORMATION

#### **Further remarks:**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge.

The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

The information cannot be transferred to other products.

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

	Health	Fire/ Flammability	Reactivity	Physical Hazard	Special
NFPA Diamond	0	1	0		0
HMIS Rating	0	1		0	