

MenaQ7 Natural GMS Powder

Safety Data Sheet



Doc.: SDS-Q-04 Rev. 3

1. IDENTIFICATION

Product form: Edible powder containing vitamin K2 as MK-7
Product name: MenaQ7 Natural 2000ppm GMS Powder
MenaQ7 Natural 1000ppm GMS Powder
Product item code: NP-0199-10403, NP-0103-10403, NP-0199-10401, NP-0103-10401
Intended use of substance: Food supplement
Company name and address: NattoPharma ASA, Lilleakerveien 2b, 0283 Oslo, Norway
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2. HAZARD IDENTIFICATION

Special information: None
Hazard classifications: Does not fall into any hazard classifications
Hazard pictograms: Not applicable
Non-classified hazards: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS	Concentration
Menaquinone-7	2124-57-4	0.1 - 0.2%
Glycerol monostearate	31566-31-1	~99.3 - ~98.3%
Ascorbyl palmitate	137-66-6	0.5 - 1%
Rosemary extract	N/A	0.1%

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. If not breathing, provide artificial respiration.
After skin contact: Wash with soap and water. Seek medical attention if symptoms persist.
Following eye contact: Rinse thoroughly with eye-bath or water. Seek medical attention if symptoms persist.
After ingestion: Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious 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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Water spray. Dry chemical powder, carbon dioxide (CO₂). Foam. Extinguishing powder.

Special hazards arising from chemical:

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Special protective equipment and precautions for fire fighters:

Wear self-contained breathing apparatus, and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid breathing vapors. Especially oil preparations.

Methods for containment and cleaning up:

Sweep up, collect and dispose appropriately. Avoid spillage into drains and waterways.

7. HANDLING AND STORAGE

Handling:

Use in well-ventilated area.

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 the 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: Glycerol monostearate
CAS: Not available

Engineering controls:

Use with local ventilation. Respiratory protection required with large spills.

Personal protection:

Respiratory protection:

Suitable respiratory protective equipment if needed.

Hand protection:

Suitable gloves.

Eye protection:

Dust protection goggles or safety glasses.

Skin protection:

Protective clothing. Wear suitable outfit for production.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow to pale yellow	Vapor density	Not applicable
Odor	Odorless	Relative density	0.5 +/- 0.1gm/cc
Odor threshold	No information available	Solubility in water	Insoluble
pH	Not applicable	Solubility in oil	Insoluble
Melting point	Approx 55°C for MK-7	Particlan coefficient (n-octanol/water)	Not determined
Initial boiling temperature/boiling range	Not applicable	Auto-ignition temp	Not applicable
Flash point	Not determined	Decompostion temp	No data available
Evaporation rate	Not applicable	Viscosity	Not applicable
Flammability	Not applicable	Solvent content	0%
Lower explosion limit	No data available	Package density	Not determined
Upper explosion level	No data available	Explosion hazard	Not explosive
Oxidizing characteristics	Not oxidizing	Ignition temperature	Not determined
Vapor pressure	Not determined		

10. STABILITY AND REACTIVITY

Chemical stability:

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

Conditions to avoid:

Heat, strong light and incompatible materials. Dust generation.

Hazardous decomposition products:

Thermal decomposition products: Oxides of carbon, oxides of nitrogen, and other strong oxidizing agents.

Possible hazardous reactions:

Stable under specified conditions. Hazardous reactions may occur if in contact with incompatible material.

Incompatible materials:

Strong oxidizing agents.

Additional information:

Protect from light exposure.

11. TOXICOLOGICAL INFORMATION

Most likely routes of exposure:

Skin and inhalation.

Symptoms:

Potential irritation of respiratory tract, eyes and skin.

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	LD50 more than 5000mg/kg
Inhalation	No indication
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.

Mobility:

No Information available.

Persistence and biodegradation:

Biodegradable.

Bioaccumulative potential:

No indication of bio-accumulation potential.

Results of PBT assessment:

No data available.

Other harmful effects:

None known.

Further ecological information:

Negative ecological effects are not expected. Do not allow material to run into surface waters or wastewaters.

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	1	1	0		0
HMIS Rating	0	0		0	