Chengdu PNP Biotech Co., Ltd.

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SAFETY DATA SHEET

Vitamin K2 (MK-7)

1. Identification

Product identifier	**Vitamin K2 (MK-7)**
CAS No. / Country of Origin	2124-57-4 / China
Molecular formula / weight	C46H64O2 / 649.0
Relevant use	Vitamin K2 source for dietary-supplement and food-fortification manufacture (industrial / professional use).
Supplier	Chengdu PNP Biotech Co., Ltd.

2. Hazards Identification

GHS classification: not classified as a hazardous substance according to the Globally Harmonised System.

GHS pictograms: none. Signal word: none.

The material is a food-grade powder. The principal occupational hazard is dust generation; fine dust may form a combustible dust atmosphere, so dust formation and ignition sources should be avoided.

3. Composition / Information on Ingredients

Substance	**Vitamin K2 (MK-7)**
Purity	Menaquinone-7 ≥ 2000 ppm (as is)
CAS No.	2124-57-4
Hazards	See Section 2

4. First-Aid Measures

Inhalation	**Move person to fresh air. If breathing is difficult, give oxygen. Seek medical advice if symptoms persist.**
Skin contact	Wash off with soap and plenty of water. Remove contaminated clothing. Seek medical advice if irritation develops.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice.

Most important symptoms: irritation of skin, eyes and respiratory tract. Show this safety data sheet to the attending physician.

5. Fire-Fighting Measures

Suitable extinguishing media: water spray, alcohol-resistant foam, dry chemical or carbon dioxide. The substance is not readily combustible, but fine dust may form a combustible atmosphere; keep away from ignition sources. Wear self-contained breathing apparatus if necessary. Decomposition products under fire conditions may include carbon oxides.

6. Accidental Release Measures

Personal precautions: use personal protective equipment, avoid dust formation and breathing dust, ensure adequate ventilation, evacuate personnel to safe areas. Environmental precautions: prevent entry to drains and surface waters; do not release to the environment. Containment and cleaning: sweep up without creating dust, shovel into suitable closed containers for disposal. Collect spillage.

7. Handling and Storage

Handling: avoid contact with skin and eyes, avoid formation of dust and aerosols, provide exhaust ventilation where dust is formed. Storage: keep in tightly sealed containers in a cool, dry, well-ventilated area, protected from light and moisture; store away from strong oxidising agents. Shelf life under these conditions: 24 months.

8. Exposure Controls / Personal Protection

No specific occupational exposure limit is established. Engineering controls: local exhaust ventilation at dust-generating

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points. Personal protective equipment: dust respirator (e.g. N95/FFP2), chemical-resistant gloves, safety goggles, protective clothing. Hygiene measures: do not eat, drink or smoke in work areas; wash hands thoroughly after handling.

9. Physical and Chemical Properties

Appearance	White to light yellow powder
Odor	Practically odorless
Melting point	Not specified (diluted powder preparation)
Molecular weight	649.0
Particle size	Not specified
Solubility	Insoluble in water; the menaquinone-7 active is soluble in oils and organic solvents
pH	Not specified

10. Stability and Reactivity

Stable under normal conditions of use and storage. Incompatible materials: strong oxidising agents. Hazardous decomposition: carbon oxides under fire conditions. Avoid dust accumulation to prevent combustible dust atmospheres.

11. Toxicological Information

Based on available data, the substance is not classified as carcinogenic, mutagenic or reprotoxic. As a vitamin K source it is of low oral toxicity; no acute-oral LD50 value is stated in the certificate of analysis. Vitamin K can antagonise coumarin-type anticoagulants (e.g. warfarin). For symptoms, see Section 4.

12. Ecological Information

No ecotoxicity data are available for the substance as supplied. Prevent release to the environment.

13. Disposal Considerations

Dispose of in accordance with local, regional and national regulations. Do not release to drains or the environment. Contaminated packaging should be emptied and recycled or disposed of according to local waste regulations.

14. Transport Information

Not classified as dangerous goods under the applicable transport regulations. Protect from light; transport in sealed, intact containers to prevent dust escape.

15. Regulatory Information

The substance is supplied as a dietary-ingredient raw material; regional food and health-product requirements (see the Regulatory Status Statement) apply to its intended use. No specific tariff or trade classification is asserted in this document.

16. Other Information

Revision date: Nov. 16, 2026. The information contained herein is based on the current state of knowledge and applies to the substance as supplied. It does not constitute a warranty of any kind. Users should ensure suitability for their specific application and comply with applicable laws.

Prepared by: Mia Yu Approved by: Charlie Wang Date: Nov. 16, 2026