

According to Hazard Communication Standard (29 CFR 1910.1200)

Vitamin D₃ 500, Feed Grade

Version 2.0 Revision Date: 28/05/2015 Issue date: 30/05/2015

Section1. Identification

Identification of the product

Product name: Vitamin D₃ 500, feed grade

Synonym: Cholecalciferol concentrate Powder

Product Code: 2132050

Recommended use: Additive for animal nutrition in premixes and compound feeds

Manufacturer/supplier identification

Manufacturer: Zhejiang Medicine Co., Ltd., Vitamin Factory

Paojiang Industrial Zone, 312071 Shaoxing, Zhejiang Province,

P.R.China

Telephone: +86-575-86023831 *Fax:* +86-575-86022668

E-mail address Responsible: zmcteco@xcpharma.com

Emergency Phone: +86-575-86023831(office time)

Section 2. Hazard(s) Identification

GHS Classification:

Physical hazards Not classified.

Health hazards Acute toxicity – oral, Category 4

Acute toxicity – dermal, Category 4
Acute toxicity – inhalation, Category 2

Specific target organ toxicity -repeated exposure, Category 1

Environmental hazards Hazardous to the aquatic environment- CHRONIC. Category 3.

Possible hazards: May cause sensitization by skin contact.

May cause harm to the unborn child.

GHS Label element

Hazard Pictograms:





Signal word: Warning

Hazard statements: Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

May causes damage to organs through prolonged or repeated

exposure.

Precautionary statements

Prevention Do not breathe dust/fume/gas/mist/ vapors/spray.

VITAMIN D3 500,000 ITEM # 009021 11/09/2021 PAGE 1 OF 7



According to Hazard Communication Standard (29 CFR 1910.1200)

Vitamin D₃ 500, Feed Grade

Version 2.0 Revision Date: 28/05/2015 Issue date: 30/05/2015

Wash hands, hair and skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing.

Response If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical attention/advice if you feel unwell.

If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before

reuse.

Storage Store locked up. Store in a well-ventilated place. Keep container

tightly closed.

DisposalDispose of contents/container in according with local regulation.Other hazards:The product is under certain conditions capable of dust explosion.

Section 3. Composition/information on ingredients

Vitamin D_3 oil (cholecalciferol) is incorporated in a matrix of gelatin and carbohydrates and stabilized with anti-oxidant BHT.

Ingredients	CAS No.	Vitamin A 1000
Vitamin D ₃ oil (cholecalciferol)	67-97-0	~15% (min 500,000IU/g)
Gelatin	-	~20%
Carbohydrates and absorbents	-	~63%
ВНТ	128-37-0	~1%
Anti-caking agent	-	~1%
Total		100%

Section 4. First-aid measures

First-aid instructions

Eyes: Flush eyes with plenty of water for at least 15 minutes. Seek

medical advice if irritation persists.

Skin: Flush exposed area with plenty of water and soap. Remove

contaminated clothing and wash before reuse. Seek medical

advice if irritation persists.

Inhalation: Remove from area of exposure and move to fresh air. If breathing

is difficult, give oxygen. If not breathing, give artificial respiration.

Consult physician immediately.



According to Hazard Communication Standard (29 CFR 1910.1200)

Vitamin D₃ 500, Feed Grade

Version 2.0 Revision Date: 28/05/2015 Issue date: 30/05/2015

Ingestion: Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious

person. Consult physician immediately.

Most important symptoms or effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in section 2 and/or in section 11. Further important

symptoms and effects are so far not known.

Notes to physician: Treat according to symptoms.

Section 5. Fire-fighting measures

Suitable extinguishing media: Water spray, foam, carbon dioxide (CO₂), dry powder.

Specific hazards: Dust explosive. In case of fire and/or explosion do not breathe

fumes.

Specific hazards develop

from the fire:

Carbon oxides may be released in case of fire.

Protective equipment and

precautions for firefighters:

Further information:

Wear full fire-fighting turn-out gear (full Bunker gear) including

NIOSH-approved self-contained breathing apparatus.

Keep containers cool by spraying with water if exposed to fire.

Dispose of fire debris and contaminated extinguishing water in

accordance with official regulations.

Section 6. Accidental release measures

Personal precautions: Avoid dust formation. Do not breathe dust. Use breathing

apparatus if exposed to vapours/dust/aerosol. Ensure adequate ventilation. Use personal protective clothing. Information

regarding personal protective measures see, section 8.

Environmental precautions: Do not discharge into drains or water courses.

Method of cleaning up:Sweep/shovel up. Collect in a manner that does not create dust

and place into a suitable waste container for disposal.

Section 7. Handling and storage

Precaution for safe handling: - local exhaust ventilation necessary

- take precautionary measures against electrostatic charging

- keep away from sources of ignition

- avoid dust formation;

- Eating, drinking, and smoking in work areas is prohibited.

Conditions for safe storage: - protected from light and humidity;

- keep in a tightly closed container in a dry, and well-ventilated

place at the temperature below 15°C



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Vitamin D₃ 500, Feed Grade

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Section 8. Exposure controls/Personal protection

Engineering controls: Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below

recommended exposure limits.

Personal protective measures: - safety glasses with side-shields.

 respiratory protection not necessary during normal operations; in case of very high dust concentrations: particle

mask or respirator with independent air supply,

- protective gloves: for example nitrile rubber.

Keep away from foodstuffs, beverages and feed.

- Immediately remove all soiled and contaminated clothing.

Other protective measures: Mechanical ventilation or local exhaust as needed to control

exposure to dust, vapors or mists. Access to a safety shower

and eye-wash.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Off white to yellowish

Form: Micro granular Odor: Almost odorless Odor threshold: No data available pH: Not applicable Melting point/range: 84.5°C (184.1°F) Boiling point/range: Decomposes. Flash point: Not applicable Evaporation rate: Not applicable

Flammability (solid/gas): May form combustible dust concentrations

in air.

Vapour pressure:Not applicableVapour density:Not applicableBulk density:0.60~0.70 g/cm³

Solubility: Practically insoluble in water (20 $^{\circ}$ C).

Partition coefficient: n-octanol/water:Not applicableAuto-ignition temperature:Not applicableThermal Decomposition:No data availableViscosity:Not applicable.

Explosion parameters



According to Hazard Communication Standard (29 CFR 1910.1200)

Vitamin D₃ 500, Feed Grade

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Maximum explosion pressure, P_{max} /MPaNo data availableMaximum rate of pressure rise (dp/dt), max(MPa/s)No data availableDust specific measure of explosibility, $Kst(Mpa \cdot m/s)$ No data availableLowest explosion level, $LEL(g/cm^3)$ No data availableMin Ignition temperature C (dust cloud), $MITC(^{\circ}\mathbb{C})$ No data availableMin Ignition temperature C (dust layer), $MITL(^{\circ}\mathbb{C})$ No data available

The minimum ignition energy, MIE/mJ < 1mJ

The MIE of a powder strongly depends on the particle size distribution and the water content of the tested sample: the finer and the dryer the powder the lower the MIE.

Section 10. Stability and Reactivity

Reactivity: No hazards to be specially mentioned.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Dust may form explosive mixture in air.

Conditions to avoid: Avoid all sources of ignition: heat, sparks, open flame, generating

dust, moisture, static discharges and light.

Incompatible materials: Incompatible with oxidizing agents, acid chlorides, acid anhydrides.

Hazardous combustion products: No decomposition if used as directed.

Section 11. Toxicological information

Acute toxicity: Oral, mouse: LD50 = 42.5 mg/kg;

Oral, rat: LD50 = 42 mg/kg; Oral, dog: LD50 =80 mg/kg. Dermal, rat: LD50 = 61mg/kg

Inhalation, rat: LC50 = 0.13-0.38 mg/L, 4hours

Other Toxic Effects on Humans: Very hazardous in case of ingestion.

Hazardous in case of inhalation.

Carcinogenicity:Not classifiedMutagenicity:Not classified.Reproductive toxicity:Not classified.STOT- single exposure:Not classified.

STOT- repeated exposure: Causes damage to organs through prolonged or repeated

exposure.

Section 12. Ecological information

Based on the active substance: Vitamin D₃ oil (cholecalciferol), CAS#67-97-0

Ecotoxicity: No data available

Persistence and degradability: No data available.



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Bioaccumulation potential:No data available.Mobility in soil:No data available.Results of PBT an dvPvB assessment:No data available.

Section 13. Disposal considerations

Observe national and local legal requirements.

Section 14. Transport information

DOT

Basic shipping requirements:

UN number 2811

Proper shipping name TOXIC SOLID, ORGANIC, N.O.S.(Vitamin D3 oil (cholecalciferol))

Hazard class 6.1
Packing group II
Environmental hazards No

IATA

UN number 2811

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S.(Vitamin D3 oil (cholecalciferol))

Transport hazard class(es) 6.1

Packing group II

Environmental hazards No

IMDG

UN number 2811

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S.(Vitamin D3 oil (cholecalciferol))

Transport hazard class(es) 6.1

Packing group II

Environmental hazards No

Section 15. Regulatory information

Federal and State Regulations: TSCA 8(b) inventory: Cholecalciferol

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Section 16. Other information

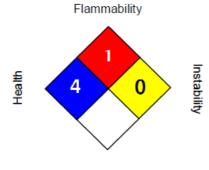


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Vitamin D₃ 500, Feed Grade

Version 2.0 Revision Date: 28/05/2015 Issue date: 30/05/2015

NFPA:



Special hazard.

HMIS III:

HEALTH	4
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Abbreviations: ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. 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. 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. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.