

Vitamin D3 - MSDS

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:

Product name: Vitamin D3
 Product Number: FPV-1
 Brand: Pangoo
 CAS-No.: 68308-36-1

Name of supplier, address and emergency telephone number:

Company : Pangoo Biotech Hebei Co., Ltd.
 Add: Cangzhou, Hebei, China
 Emergency telephone number: +86-317-8585021

Product use: As feed additive for animals

Date of MSDS preparation: 11/21/2018

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Description: Feed additive preparation consists of vitamin D3 (3a671), sucrose, cornstarch, gelatin, maltodextrin, butylated hydroxytoluene (BHT) (E321) as antioxidant and silicic acid, precipitated and dried (E551a) as anti-caking agent.

Synonym: Cholecalciferol, Colecalciferol, vitamin D, vitamin D3

Chemical Name: (1S,3Z)-3-[(2E)-2-[(1R,3aS,7aR)-7a-methyl-1-[(2R)-6-methylheptan-2-yl]-2,3,3a,5,6,7-hexahydro-1H-inden-4-ylidene]ethylidene]-4-methylidenecyclohexan-1-ol

Chemical Formula: C27H44O

Composition:

Name	CAS #	% by Weight
Cholecalciferol	67-97-0	100

Toxicological Data on Ingredients:

Cholecalciferol: ORAL (LD50): Acute: 42 mg/kg [Rat]. 42.5 mg/kg [Mouse]. 80 mg/kg

SECTION 3 HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Very hazardous in case of eye contact (irritant), of ingestion. Hazardous in case of inhalation. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:

Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation.

CARCINOGENIC EFFECTS: N/A
 MUTAGENIC EFFECTS: N/A
 TERATOGENIC EFFECTS: N/A
 DEVELOPMENTAL TOXICITY: N/A

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 FIRST AID MEASURES

Inhalation:	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation:	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Eye contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact:	No known effect on skin contact, rinse with water for a few minutes.
Serious Skin Contact:	N/A
Ingestion:	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion:	N/A

SECTION 5 FIRE FIGHTING MEASURES

Flammability of the Product:	May be combustible at high temperature.
Auto-Ignition Temperature:	N/A
Flash Points:	N/A
Flammable Limits:	N/A
Products of Combustion:	These products are carbon oxides (CO, CO ₂).
Fire Hazards in Presence of Various Substances:	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances:	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards:	Material in powder form, capable of creating a dust explosion.
Special Remarks on Explosion Hazards:	N/A

SECTION 6 ACCIDENTAL RELEASE MEASURES

Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill:	Use a shovel to put the material into a convenient waste disposal container.

SECTION 7 HANDLING AND STORAGE

Precautions:	Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label.
Storage:	

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

 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. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: N/A

 SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid.
Odor:	Amine like. (Slight.)
Taste:	N/A
Molecular Weight:	384.65 g/mole
Color:	Yellowish. (Light.)
pH (1% soln/water):	N/A
Boiling Point:	Decomposes.
Melting Point:	84.5°C (184.1°F)
Critical Temperature:	N/A
Specific Gravity:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Volatility:	N/A
Odor Threshold:	N/A
Water/Oil Dist. Coeff.:	N/A
Ionicity (in Water):	N/A
Dispersion Properties:	N/A
Solubility:	Insoluble in cold water.

 SECTION 10 STABILITY AND REACTIVITY

Stability:	The product is stable.
Instability Temperature:	N/A
Conditions of Instability:	N/A
Incompatibility with various substances:	N/A
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	N/A
Special Remarks on Corrosivity:	N/A
Polymerization:	No.

 SECTION 11 TOXICOLOGICAL INFORMATION

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Routes of Entry:	Eye contact. Inhalation. Ingestion.
Toxicity to Animals:	Acute oral toxicity (LD50): 42 mg/kg [Rat].
Chronic Effects on Humans:	N/A
Other Toxic Effects on Humans:	Very hazardous in case of ingestion. Hazardous in case of inhalation.
Special Remarks on Toxicity to Animals:	N/A
Special Remarks on Chronic Effects on Humans:	passes through the placenta, excreted in maternal milk.
Special Remarks on other Toxic Effects on Humans:	Nuisance dust.

 SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	N/A
BOD5 and COD:	N/A
Persistence and degradability:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation:	N/A

 SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal:

 SECTION 14 TRANSPORT INFORMATION

DOT (US):	CLASS 6.1: Poisonous material.
Identification:	Toxic solid, organic, n.o.s. (Cholecalciferol) : UN2811 PG: II
Special Provisions for Transport:	N/A

 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).
Other Classifications:	
WHMIS (Canada):	CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCL (EEC):	R25- Toxic if swallowed. R41- Risk of serious damage to eyes.
HMIS (U.S.A.):	Health Hazard: 3 Fire Hazard: 1 Reactivity: 0 Personal Protection: j
National Fire Protection Association (U.S.):	Health: 3

S.A.): Flammability: 1
Reactivity: 0
Specific hazard:

Protective Equipment:

Not applicable. Lab coat. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

SECTION 16 OTHER INFORMATION

"IMO" : not dangerous for sea transport

Disclaimer

Additional references can be taken from the label or the product description. The information given here is correct to the best of our knowledge at the time of writing this sheet. No responsibility can be taken for improper use or handling of the product.