

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: Vitamin D2
Synonyms: Irradiated ergosterol; Ergosterol irradiated; Ercalcio!; Calciferol
Catalog number: PI-12692

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.
633 Eshan Road,
Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700

Fax number: +86-21-58953701

E-mail address: info@pipharm.com

Emergency telephone number

Emergency number: +86-21-58953706

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Acute toxicity, inhalation Category 2

Acute toxicity, Dermal Category 3

Acute toxicity, Oral Category 3

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H330: Fatal if inhaled.

H372: Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280: Wear protective gloves/ protective clothing.

P284: Wear respiratory protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P310: Immediately call a POISON CENTER or doctor/ physician.

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): T+ Very toxic

Risk phrases:

R 24/25: Toxic in contact with skin and if swallowed.

R 26: Very toxic by inhalation.

R 48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Safety phrases:

S 36/37: Wear suitable protective clothing and gloves.

S 45: In case of accident or if you feel unwell, seek medical advice immediately

HMIS classification:

Health hazard: 3

Flammability: 0

Physical hazards 0

NFPA rating:

Health hazard: 3

Fire: 0

Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

Molecular formula: C₂₈H₄₄O

Molecular weight: 396.65

<i>Component</i>	<i>Concentration</i>
<i>CAS Number:</i> 50-14-6	<i>EP8.0</i>
<i>EC Number:</i> 200-014-9	

Section 4 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.

Skin: Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Ingestion: Wash mouth out with water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

Extinguishing media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Special hazards arising from the substance or mixture: Carbon oxides

Advice for firefighters: Wear a self-contained breathing apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

Air and moisture sensitive. Light sensitive. Store under inert gas.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance

with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

Physical state: Crystalline powder or crystals

Color: White or slightly yellowish

Odour: Odorless

Melting point/freezing point: 114 - 118 °C - lit.

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability(solid, gas): No data available

*Upper/lower flammability
or explosive limits:* No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Section 10-Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Oxidizing agents, Strong acids and strong bases

Hazard Decomposition products: Carbon oxides

Section 11 - Toxicological Information

Acute toxicity:

Component: Vitamin D2

LD50 Oral - rat - 10 mg/kg

Skin corrosion/irritation: No data available

<i>Serious eye damage/eye irritation:</i>	No data available
<i>Respiratory or skin sensitization:</i>	No data available
<i>Germ cell mutagenicity:</i>	No data available
<i>Carcinogenicity:</i>	
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.	
<i>Reproductive toxicity:</i>	
Reproductive toxicity - rat - Oral	
Maternal Effects: Menstrual cycle changes or disorders. Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated).	
Reproductive toxicity - rat - Subcutaneous	
Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated).	
Developmental Toxicity - rat - Oral	
Specific Developmental Abnormalities: Endocrine system. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system. Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive).	
Developmental Toxicity - mouse - Oral	
Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Musculoskeletal system.	
<i>Specific target organ toxicity(STOT)-single exposure:</i>	No data available
<i>Specific target organ toxicity (STOT)-repeated exposure:</i>	No data available
<i>Aspiration hazard:</i>	No data available
<i>Additional information:</i>	RTECS#: KE1050000

Section 12 – Ecological Information

<i>Toxicity:</i>	No data available
Component: Vitamin D2	
<i>Persistence and degradability:</i>	No data available
<i>Bioaccumulative potential:</i>	No data available
Component: Vitamin D2	
<i>Mobility in soil:</i>	No data available
<i>Results of PBT and vPvB assessment:</i>	No data available
<i>Other adverse effects:</i>	No data available

Section 13 - Disposal Consideration

Waste treatment methods

<i>Product:</i>	Dispose of in accordance with federal, state and local environmental regulations
<i>Contaminated packaging:</i>	Dispose of as unused product

Section 14 - Transport Information

IATA

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Vitamin D2)

IMDG

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Vitamin D2)

RID/ADR

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Vitamin D2)

DOT(US)

UN number: 2811
Hazard class: 6.1
Packing group: II
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Vitamin D2)

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical safety assessment: No data available

Section 16 – Other Information

SDS creation date: Nov 19, 2012

Update: Aug 25, 2014

Disclaimer:

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