Section 1. Product and Company Identification

**Product Name**: Vitamin D2  
**Product ID**: V3476  
**Chemical Name (Synonyms)**: Calciferol, Ergocalciferol, Viosterol, Condol, Deltalin, Diactol, Ergorone, Infron, Mulsiferol, Ostelin, Radsterin  
**Supplier**: LKT Laboratories, Inc  
545 Phalen Blvd.  
St. Paul, MN 55130 USA  
Ph: 651-644-8424 Fax: 651-644-8357  
www.lktlabs.com - getinfo@lktlabs.com  
**Emergency Phone #**: 1-800-424-9300

Section 2. Hazards Identification

**GHS Classification**  
Acute toxicity, Oral (Category 3) H301  
Acute toxicity, Inhalation (Category 2) H330  
Acute toxicity, Dermal (Category 3) H311  
Specific target organ toxicity - repeated exposure, Oral (Category 1) H372

**GHS Label elements including precautionary statements**

**Pictogram**

**Signal word**: Danger

**Hazard and precautionary statements**

**Hazard statements**  
H301 + H311 - Toxic if swallowed or in contact with skin.  
H330 - Fatal if inhaled.  
H372 - Causes damage to organs through prolonged or repeated exposure if swallowed.

**Precautionary statements**

P260 - Do not breathe dust, fumes, gas, mist, vapors, spray.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink, or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing.  
P284 - Wear respiratory protection.  
P302 + P352 + P312 - IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.  
P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P314 - Get medical advice/attention if you feel unwell.  
P362 - Take off contaminated clothing and wash before reuse.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an approved waste disposal plant.

**HMIS Classification**

Health hazard: 4  
Chronic health hazard: *  
Flammability: 0  
Physical hazard: 0

**NFPA Rating**

Health hazard: 4  
Fire hazard: 0  
Reactivity hazard: 0

**Potential Health Effects**

Inhalation - Acute toxicity. - Fatal if inhaled. May cause respiratory tract irritation.  
Skin - Acute toxicity. - Toxic in contact with skin. May cause skin irritation.  
Eyes - May cause eye irritation.  
Ingestion - Acute toxicity. - Toxic if swallowed.
Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Ingredient: Title Compound</th>
<th>Percent: 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C_{28}H_{44}O</td>
<td>Formula Wt. 396.65</td>
</tr>
<tr>
<td>CAS No.</td>
<td>50-14-6</td>
<td>EC No. 200-014-9</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact
Flush eyes with water as a precaution.

Skin Contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point
Not available.

Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting Procedures
Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards
Not available.

Section 6. Accidental Release Measures

Personal Precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosol. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: -20°C

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. - Carbon oxides.

Other Remarks
Storage class (TRGS 510): 6.1B: Noncombustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials.
Section 8. Exposure Controls/Personal Protection

Personal protective equipment

EXPOSURE CONTROLS
Contains no substances with occupational exposure limit values.

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State: Solid.
Color: White to off-white powder.

Boiling Point: Not available.
Volatility: Not available.

Melting Point: 115-118°C
Density: Not available.

Solubility: Soluble in organic solvents. Insoluble in water.

Flash Point: Not available.
Ignition temperature: Not available.

Lower explosion limit: Not available.
Autoignition temperature: Not available.

Upper explosion limit: Not available.
Vapor pressure: Not available.

Water solubility: Insoluble in water.

Partition coefficient: n-octanol/water: Not available.
Odor Threshold: Not available.

Relative vapor density: Not available.
Evaporation rate: Not available.

Section 10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Materials To Avoid: Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides.
### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>Not available</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>Not available</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>Not available</td>
</tr>
<tr>
<td>Other information on acute toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Rat - Oral Maternal Effects: Menstrual cycle changes or disorders. Effects on Fertility: Female fertility index (e.g., # females pregnant per females mated).</td>
</tr>
<tr>
<td>Specific organ toxicity single exposure (GHS)</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific organ toxicity repeated exposure (GHS)</td>
<td>Ingestion - Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>Not available</td>
</tr>
<tr>
<td>Synergistic effects</td>
<td>Not available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>Not available</td>
</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>PBT/vPvB assessment not available as chemical safety assessment not required/not</td>
</tr>
</tbody>
</table>
Section 13. Disposal Considerations

**Waste Disposal**

Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14. Transport Information

**DOT (US)**

- UN number: 2811
- Class: 6.1
- Packing Group: II
- Proper shipping name: Toxic solid, organic, n.o.s. (Vitamin D2)
- Poison inhalation hazard: No

**IATA**

- UN number: 2811
- Class: 6.1
- Packing Group: II
- Proper shipping name: Toxic solid, organic, n.o.s. (Vitamin D2)

**IMDG**

- UN number: 2811
- Class: 6.1
- Packing Group: II
- EMS #: F-A, S-A
- Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Vitamin D2)

Further Information

Section 15. Regulatory Information

**Reach No.**

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

- Vitamin D2
- CAS #: 50-14-6
- Revision Date: 1993-04-24

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components**

- Acute health hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

- Vitamin D2
- CAS #: 50-14-6
- Revision Date: 1993-04-24

**Pennsylvania Right To Know Components**

- Vitamin D2
- CAS #: 50-14-6
- Revision Date: 1993-04-24

**New Jersey Right To Know Components**

- Vitamin D2
- CAS #: 50-14-6
- Revision Date: 1993-04-24

**California Prop 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

**Other information**

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.
For emergencies in the USA, call
CHEMTREC 800-424-9300