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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: LS-H76-500, LS-H76-1000, LS-H76-5000

Product Name: 1,25-dihydroxy Vitamin D2

Synonyms: (1R,3S,5Z)-4-methylene-5-[(2E)-2-[(1R,3aS,7aR)-octahydro-1-[(1R,2E)-5-

hydroxy-1,4, 5-trimethyl-2-hexen-1-yl]-7a-methyl-4H-inden-4-ylidene]ethylidene]-1,3-cyclohexanedi ol; Ro 17-6218; Ercalcitriol;

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

For research use only, not for human or veterinary use.

1.3 Details of the supplier of the Safety Data Sheet:

MANUFACTURER: LifeSpan BioSciences, Inc.

ADDRESS: 2401 - 4th Avenue, Suite 900, Seattle, WA 98121

PHONE: 1-206-464-1554 FAX: 1-206-577-4565 WEBSITE: www.LSBio.com

1.4 Emergency contact and telephone number:

CHEMTEL EMERGENCY 1-800-255-3924 (United States, Canada, Puerto Rico, and the U.S. Virgin Islands)

PHONES: 1-813-248-0585 (Other locations)

CHEMTEL CONTRACT ID: MIS2559905

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Inhalation, Category 3
Acute Toxicity: Oral, Category 3
Acute Toxicity: Skin, Category 3
Toxic To Reproduction, Category 2

2.1.2 Classification according to Directive 1999/45/EC:

T: Toxic

Risk Phrases: R23/24/25, R63

For full text of R- phrases: see SECTION 15.

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:





GHS Signal Word: Danger

GHS Hazard Phrases:

H331: Toxic if inhaled.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H361: Suspected of damaging fertility or the unborn child.

GHS Precaution Phrases:

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P361+364: Take off immediately all contaminated clothing and wash it before reuse.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.



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GHS Response Phrases:

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P311: Call a {POISON CENTER/doctor/...}.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P302+352: IF ON SKIN: Wash with plenty of soap and water. P312: Call a {POISON CENTER/doctor/...} if you feel unwell.

P321: Specific treatment {see ... on this label}.

P308+313: IF exposed or concerned: Get medical attention/advice.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.2.2 Labeling according to Directive 1999/45/EC:



Т

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms: May cause eye, skin, or respiratory system irritation.

Suspected of damaging fertility or the unborn child.

Toxic if inhaled.

Toxic if swallowed.

Toxic in contact with skin.

To the best of our knowledge, the toxicological properties have not been thoroughly

investigated.

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
60133-18-8 NA	1,25-dihydroxy Vitamin D2	100.0 %	NA NA	T; R23/24/25-63 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331 Toxic Repro. 2: H361

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

Contact: contaminated clothing. Get medical attention if symptoms occur. Wash clothing before

reuse.

In Case of Eye Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

Contact: examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth

to an unconscious person. Get medical attention. Do NOT induce vomiting unless

directed to do so by medical personnel.



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Section 5. Fire Fighting Measures

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

Media: Use water spray to cool fire-exposed containers.

Unsuitable A solid water stream may be inefficient.

Extinguishing Media:

5.2 Flammable Properties No data available.

and Hazards:

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH

Instructions: approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or

and Emergency

respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy

Procedures: rubber gloves).

6.2 Environmental

Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 Methods and Material Contain spill and collect, as appropriate.

For Containment and

Transfer to a chemical waste container for disposal in accordance with local regulations.

Cleaning Up:

Section 7. Handling and Storage

7.1 Precautions To Be Avoid breathing dust/fume/gas/mist/vapours/spray.

Taken in Handling: Avoid prolonged or repeated exposure.

7.2 Precautions To Be Keep container tightly closed.

Taken in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
60133-18-8	1,25-dihydroxy Vitamin D2	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
60133-18-8	1,25-dihydroxy Vitamin D2	No data.	No data.	No data.

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to

(Ventilation etc.): control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Lab coat

Clothing:

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Mainten Do not take internally.

ance Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a

Multi-region format



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safety shower.

Wash thoroughly after handling.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [] Liquid [X] Solid

Appearance and Odor: A crystalline solid

Melting Point:No data.Boiling Point:No data.Flash Pt:No data.Evaporation Rate:No data.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or

mm Hg):

No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Solubility Notes: ~1 mg/ml in EtOH;

Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: C28H44O3 428.7

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [] Will not occur [X]

10.4 Conditions To Avoid: No data available.10.5 Incompatibility - No data available.

Materials To Avoid:

10.6 Hazardous No data available.

Decomposition Or

Byproducts:



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Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects:

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

13.1 Waste Disposal Dispose in accordance with local, state, and federal regulations.

Method:

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Toxic solid, organic, n.o.s.(1,25-dihydroxy Vitamin D2)

DOT Hazard Class: 6.1 POISON

UN/NA Number: 2811 Packing Group: ||

POISON 6

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Toxic solid, organic, n.o.s.(1,25-dihydroxy Vitamin D2)

UN Number: 2811 Packing Group: ||

Hazard Class: 6.1 - POISON

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Toxic solid, organic, n.o.s. (1,25-dihydroxy Vitamin D2)

UN Number:2811Packing Group:IIHazard Class:6.1 - POISONIATA Classification:6.1

Additional Transport Transport in accordance with local, state, and federal regulations.

Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity

Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per

IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous

Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
60133-18-8	1,25-dihydroxy Vitamin D2	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
60133-18-8	1,25-dihydroxy Vitamin D2	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No



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European Community Hazard Symbol codes:



T

European Community Risk and Safety Phrases:

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R63 Possible risk of harm to the unborn child.

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label

whenever possible.)

Regulatory Information This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and

Statement: European Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date: 11/01/2013

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established,

N.R.=Not required