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1 Identification

- · Product identifier
- · Trade name: Paricalcitol
- · Synonym
- (1R,3R,5Z)-5-[(2E)-2-[(1R,3aS,7aR)-octahydro-1-[(1R,2E,4S)-5-hydroxy-1,4,5-trimethyl-2-hexen-1-yl]-7a-methyl-4H-inden-4-1,3-cyclohexanediol 1α,25-Dihydroxy-19-nor-vitamin D2 19-nor-1,25-Dihydroxyvitamin D2 Zemplar
- · Article number: 17716
- · CAS Number: 131918-61-1
- **EC number:** 658-064-6
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
 USA
- Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Toxicity - Oral 1	H300	Fatal if swallowed.
Acute Toxicity - Dermal 3	H311	Toxic in contact with skin.

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Carcinogenicity 2	H351 Su	(Contd. from page uspected of causing cancer.
	H361-H362 Su	uspected of damaging fertility or the unborn child. May caus arm to breast-fed children.
Label elements		
GHS label elements		
The substance is classified	ed and labeled a	according to the Globally Harmonized System (GHS).
Hazard pictograms		
GHS06 GHS08		
G11500 G11500		
Signal word Danger		
Hazard statements		
H300 Fatal if swalle	owed.	
H311 Toxic in cont		
	causing cancer	
H361-H362 Suspected of	damaging fertili	ity or the unborn child. May cause harm to breast-fed childrer
Precautionary statemer		
	al instructions be	
		precautions have been read and understood.
	he dusts or mists	
		ncy/while nursing.
	ighly after handli	
		when using this product.
		ective clothing/eye protection/face protection.
P301+P310 If swallowed:		
P321 Specific trea P330 Rinse mouth	tment (see on th	lis label).
P302+P352 If on skin: W	-	of water
		et medical advice/attention.
		f you feel unwell.
		taminated clothing and wash it before reuse.
P405 Store locked		
		iner in accordance with local/regional/national/internation
regulations.		5
Classification system:		
NFPA ratings (scale 0 -	4)	
Health = 4		
Fire = 0		
4 0 Reactivity =	0	
✓		
HMIS-ratings (scale 0 -	4)	
HEALTH 4 Health = 4		
FIRE 0 Fire = 0		
REACTIVITY 0 Reactivity =	= 0	
Other hazards		
Results of PBT and vPv	B assessment	
PBT: Not applicable.	_ 400000mom	

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· vPvB: Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description
- 131918-61-1 Paricalcitol
- · Identification number(s)
- EC number: 658-064-6

4 First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to section 13.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- · PAC-2: Substance is not listed.

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· PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection: Not required.

9 Physical and chemical properties				
 Information on basic physical and chemical properties General Information 				
· Appearance:				
Form:	Solid			
Color:	Not determined.			
· Odor:	Characteristic			
Structural Formula	C27H44O3			
· Molecular Weight · Odor threshold:	416.6 g/mol Not determined.			
· pH-value:	Not applicable.			
• Change in condition				
Melting point/Melting range:	Undetermined. Undetermined.			
Boiling point/Boiling range:				
· Flash point:	Not applicable.			
· Flammability (solid, gaseous):	Product is not flammable.			
· Decomposition temperature:	Not determined.			
· Ignition temperature:	Not determined.			
 Danger of explosion: 	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapor pressure:	Not applicable.			
· Density:	Not determined.			
Relative density	Not determined.			
· Vapor density	Not applicable.			
· Evaporation rate	Not applicable.			
 Solubility in / Miscibility with 				
Water:	Not determined.			
· Partition coefficient (n-octanol/water): Not determined.			
· Viscosity:				
Dynamic:	Not applicable.			
Kinematic: SOLUBILITY	Not applicable.			
	Ethanol: 1 mg/ml			
· Other information	No further relevant information available.			

10 Stability and reactivity

· Reactivity No further relevant information available.

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- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · Incompatible materials: strong acids, strong oxidizing agents
- Hazardous decomposition products: carbon oxides

11 Toxicological information

- · RTECS Number RC9720000
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Intraperitoneal TDLO 48,000 ng/kg/4W intermittent (mouse)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Uncleaned packagings:
 Recommendation: Disposal must be made according to official regulations.

Transport information	
ransport mormation	
· DOT, IMDG, IATA	UN2811
· UN proper shipping name · DOT	Tavia solida, argania, n.a.a. (Dariaslaital)
MDG	Toxic solids, organic, n.o.s. (Paricalcitol) TOXIC SOLID, ORGANIC, N.O.S. (Paricalcitol)
	Toxic solid, organic, n.o.s. (Paricalcitol)
· Transport hazard class(es)	
DOT	
Тохіс	
₩ 01	
· Class · Label	6.1 Toxic substances 6.1
	0.1
6	
Class	6.1 Toxic substances
· Label	6.1
· Packing group	
· DOT, IMDG, IATA	
· Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
 Hazard identification number (Kemler code) EMS Number:): 66 F-A,S-A
· Stowage Category	Г-7,0-7 В
• Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 kg
	On cargo aircraft only: 50 kg
·IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E5
	Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 300 g
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· IATA · Remarks:	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.
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (PARICALCITOL), 6.1, I

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

- Contact: -
- · Date of preparation / last revision 07/31/2023
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 1: Acute toxicity – Category 1 Acute Toxicity - Dermal 3: Acute toxicity – Category 3 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 * * Data compared to the previous version altered. (Contd. from page 8)