

Safety Data Sheet Maxacalcitol

SECTION 1: Identification

Product name: Maxacalcitol

IUPAC name: (1R,3S,5Z)-5-(2E)-2-(1S,3aS,7aS)-1-(1S)-1-(3-hydroxy-3-methylbutoxy)ethyl-7a-methyl-2,3,3a,5,6,7-hexahydro-1H-inden-4-ylideneethylidene-4-methylidenecyclo hexane-1,3-diol

Product use restrictions: Only for research and development use by, or directly under the supervision of a technically qualified individual.

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SECTION 2: Hazard Identification:

GHS Classification Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3), Respiratory system Pictogram(s)



Signal word:	
Warning	
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary staten	nent(s):
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
P312	Call a poison center or doctor if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.
Hazards not otherwise	e classified (HNOC) or not covered by GHS: None

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SECTION 3: Composition/Information on Ingredients

Synonyms: 22-Oxacalcitriol CAS#: 103909-75-7 Purity: Not available. EC: Not available.

SECTION 4: First-Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do not induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. **Specific hazards arising from the chemical:** Carbon oxides.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container.

Consult local regulations for disposal. See section 13 for further disposal information.

SECTION 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Store long-term at -20°C.



SECTION 8: Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL:Not available.NIOSH REL:Not available.ACGIH TLV:Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection

Partition Coefficient:

Eyes: Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces. Use eyewear tested and approved under appropriate government standards such as OSHA 29 CFR 1910.133 or EU EN166.

Hands: Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical conditions of the workplace, and the chemical resistance and physical properties of the glove material.

Skin and body: Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear.

Respiratory: Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

SECTION 9: Physical and Chemical Properties Physical State: White solid Molecular Formula: C26H42O4 Molecular Weight: 418.61 Odor: Not available. pH: Not available. Not available. **Boiling Point Range:** Freezing/Melting Point: Not available. Flash Point: Not available. Evaporation Rate: Not available. Flammability (solid, gas): Please see section 2. Explosive limits: Not available. Vapor Pressure: Not available. Vapor Density: Not available. Solubility: Not available. Relative Density: Not available. Refractive Index: Not available. Volatility: Not available. Auto-ignition Temperature: Not available. **Decomposition Temperature:** Not available.

Not available.



SECTION 10: Stability and Reactivity	
Reactivity:	Not available.
Chemical stability:	Stable under recommended temperatures and pressures.
Possibility of hazardous reactions:	Not available.
Conditions to avoid:	Dust generation.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides.
SECTION 11: Stability and Reactivity	
RTECS#	Not available.
Acute toxicity:	Not available.
Routes of exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms related to the physical, chemical	and toxicological characteristics: Skin contact may result in inflammatio
characterized by itching, scaling, reddening, blis	tering, pain or dryness Eye contact may result in redness, pain or severe ey
damage. Inhalation may cause irritation of the lun	gs and respiratory system. Overexposure may result in serious illness or death.
Carcinogenicity	
IARC:	Not classified.
NTP:	Not listed.
OSHA:	Not listed.
Acute toxic effects: Inflammation of the eye is cha	racterized by redness, watering, and itching. Skin inflammation is characterized
by itching, scaling, reddening, or, occasionally, bli	interving

SECTION 12: Ecological information	
Ecotoxicity:	Not available.
Persistence and degradability:	Not available.
Bio-accumulative potential:	Not available.
Mobility in soil:	Not available.
Other adverse effects:	Not available.

SECTION 13: Disposal Considerations

Disposal of waste: Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when disposing of the substance.

Disposal of packaging: Do not reuse containers. Dispose of as unused product.

SECTION 14: Transportation Information	
DOT	
UN number:	Not hazmat
Proper shipping name:	Not available.
Transport hazard class:	Not available.
Packing group:	Not available.
ΙΑΤΑ	
UN Number:	Not DG
Proper shipping name:	Not available.
Transport hazard class:	Not available.
Packing group:	Not available.

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SECTION 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture No data available

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Additional Information

The information above 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. In no event shall Heron Pharma be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Heron Pharma has been advised of the possibility of such damages.