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#### **1 Identification**

· Product identifier

• Trade name: Zinc orotate dihydrate Zinci orotas dihydricus

- · Article number: 101212
- CAS Number: 68399-76-8

• EC number:

- 262-207-4
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Pharma Active ingredients
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Fagron Services B.V. Molenwerk 13, UITGEEST, 1911DB Netherlands Phone: +31251361400

Supplier Azelis Australia Suite 217 117 Old Pittwater Road Brookvale NSW 2100 Australia Phone: +61 0299392188 Fax: +61 0299392799 e-mail: info@azelis.com.au

• Further information obtainable from: info@fagron.com.au • Emergency telephone number:

In case of emergency, please call your local poisons: Emergency Australia: 13 11 26 Emergency NZ: 0800 764 766 (0800 POISON)

1800 127 406 (24 h, Australia) | +64 4 917 9888 (24 h, Worldwide) CareChem 24x7 : EUROPE: +44 1235 239670 | USA: +1 202 464 2554 | CANADA - +1 800 579 7421 (Toll Free)| ASIA - +65 3158 1074 | MOROCCO - +44 1235 239671 | REST OF THE WORLD - +44 1865 407333 (English only )

# 2 Hazard(s) Identification

· Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- Signal word Void
- · Hazard statements Void

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- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.

#### **3 Composition and Information on Ingredients**

- · Chemical characterisation: Substances
- CAS No. Description CAS: 68399-76-8 Zinc orotate dihydrate Zinci orotas dihydricus
- · Identification number(s)
- EC number: 262-207-4

## 4 First Aid Measures

- Description of first aid measures
- · General information: No special measures required.
- After inhalation:
  - Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. Call a doctor immediately.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek immediate medical advice.
- · 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 extinguishing methods suitable to surrounding conditions. Water spray Carbon dioxide Fire-extinguishing powder

- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced. In case of fire, the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx)
- Advice for firefighters
   Protective equipment:
- Wear fully protective suit.

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Wear self-contained respiratory protective device.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically. Dispose of the material collected according to regulations.

Dispose of the material collected according to regulations.

Dispose contaminated material as waste according to item 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.

# 7 Handling and Storage

- · Handling:
- · Precautions for safe handling
- Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- 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:

Protect from humidity and water.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

· Specific end use(s) No further relevant information available.

## 8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Suitable respiratory protective device recommended.

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· Protection of hands:	(Contd. of page 3)
Protective gloves	
preparation.	e and resistant to the product/ the substance/ the
preparation/ the chemical mixture.	to the glove material can be given for the product/ the
degradation	ration of the penetration times, rates of diffusion and the
<ul> <li>Material of gloves</li> <li>The selection of the suitable gloves does r quality and varies from manufacturer to m</li> <li>Penetration time of glove material</li> </ul>	not only depend on the material, but also on further marks of anufacturer.
	und out by the manufacturer of the protective gloves and
9 Physical and Chemical Prop	perties
<ul> <li>Information on basic physical and cher</li> <li>General Information</li> </ul>	nical properties
· Appearance: Form:	Crystalline powder
Colour:	Whitish
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
<ul> <li>Change in condition Melting point/freezing point: Initial boiling point and boiling ranges</li> </ul>	Undetermined.
· Flash point:	>300°C
· Flammability (solid, gas):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.

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· Relative density	Not determined.	
· Vapour 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:	Not applicable.	
· Other information	No further relevant information available.	

## **10 Stability and Reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with strong oxidising agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Poisonous gases/vapours
- Carbon monoxide and carbon dioxide
- Nitrogen oxides (NOx)

# **11 Toxicological Information**

- · Information on toxicological effects
- · Acute toxicity
- · LD/LC50 values relevant for classification:
- Oral LD50 >3000 mg/kg (rat)
- · Additional toxicological information:
- When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- The substance is not subject to classification according to the latest version of the EU lists.

# **12 Ecological Information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

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- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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 Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

· UN-Number · ADG, IMDG, IATA	not regulated
<ul> <li>· UN proper shipping name</li> <li>· ADG, IMDG, IATA</li> </ul>	not regulated
<ul> <li>Transport hazard class(es)</li> </ul>	
· ADG, ADN, IMDG, IATA · Class	not regulated
<ul> <li>Packing group</li> <li>ADG, IMDG, IATA</li> </ul>	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Anne Marpol and the IBC Code</li> </ul>	ex II of Not applicable.
· UN "Model Regulation":	not regulated

#### **15 Regulatory information**

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

- · Australian Inventory of Industrial Chemicals Substance is not listed.
- · Standard for the Uniform Scheduling of Medicines and Poisons Substance is not listed.
- · Australia: Priority Existing Chemicals Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.

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· National regulations:

- · Other regulations, limitations and prohibitive regulations
- Therapeutic goods are listed on the Australian Register of Therapeutic Goods(ARTG)
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- · Contact:
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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