

# SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 19, 2017

Revision Date: Aug 19, 2017

## 1. Identification

### 1.1 GHS Product identifier

|              |                          |
|--------------|--------------------------|
| Product name | CALCIPOTRIOL MONOHYDRATE |
|--------------|--------------------------|

### 1.2 Other means of identification

|                |                            |
|----------------|----------------------------|
| Product number | –                          |
| Other names    | Calcipotriol (monohydrate) |

### 1.3 Recommended use of the chemical and restrictions on use

|                      |                        |
|----------------------|------------------------|
| Identified uses      | For industry use only. |
| Uses advised against | no data available      |

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Acute toxicity - Dermal, Category 1

### 2.2 GHS label elements, including precautionary statements

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Pictogram(s)        |  |
| Signal word         | Danger                                                                              |
| Hazard statement(s) | H310 Fatal in contact with skin                                                     |

|                                   |                                                                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary statement(s)</b> |                                                                                                                                                                                                                                                   |
| <b>Prevention</b>                 | P262 Do not get in eyes, on skin, or on clothing.<br>P264 Wash ... thoroughly after handling.<br>P270 Do not eat, drink or smoke when using this product.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.      |
| <b>Response</b>                   | P302+P352 IF ON SKIN: Wash with plenty of water/...<br>P310 Immediately call a POISON CENTER/doctor/...<br>P321 Specific treatment (see ... on this label).<br>P361+P364 Take off immediately all contaminated clothing and wash it before reuse. |
| <b>Storage</b>                    | P405 Store locked up.                                                                                                                                                                                                                             |
| <b>Disposal</b>                   | P501 Dispose of contents/container to ...                                                                                                                                                                                                         |

### 2.3 Other hazards which do not result in classification

none

## 3. Composition/information on ingredients

### 3.1 Substances

| Chemical name            | Common names and synonyms | CAS number  | EC number | Concentration |
|--------------------------|---------------------------|-------------|-----------|---------------|
| CALCIPOTRIOL MONOHYDRATE | CALCIPOTRIOL MONOHYDRATE  | 147657-22-5 | none      | 100%          |

## 4. First-aid measures

### 4.1 Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

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

### **4.2Most important symptoms/effects, acute and delayed**

no data available

### **4.3Indication of immediate medical attention and special treatment needed, if necessary**

no data available

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## **5.Fire-fighting measures**

### **5.1Extinguishing media**

#### **Suitable extinguishing media**

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

### **5.2Specific hazards arising from the chemical**

no data available

### **5.3Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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## **6.Accidental release measures**

### **6.1Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **6.2Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3Methods and materials for containment and cleaning up**

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## **7.Handling and storage**

### **7.1Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### **7.2Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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## **8.Exposure controls/personal protection**

### **8.1Control parameters**

#### **Occupational Exposure limit values**

no data available

#### Biological limit values

no data available

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

## 9. Physical and chemical properties

|                                                                   |                   |
|-------------------------------------------------------------------|-------------------|
| Physical state                                                    | no data available |
| Colour                                                            | no data available |
| Odour                                                             | no data available |
| Melting point/<br>freezing point                                  | no data available |
| Boiling point or<br>initial boiling<br>point and boiling<br>range | no data available |
| Flammability                                                      | no data available |
| Lower and upper<br>explosion limit /                              | no data available |

|                                                            |                   |
|------------------------------------------------------------|-------------------|
| flammability<br>limit                                      |                   |
| Flash point                                                | no data available |
| Auto-ignition<br>temperature                               | no data available |
| Decomposition<br>temperature                               | no data available |
| pH                                                         | no data available |
| Kinematic<br>viscosity                                     | no data available |
| Solubility                                                 | no data available |
| Partition<br>coefficient<br>n-octanol/water<br>(log value) | no data available |
| Vapour pressure                                            | no data available |
| Density and/or<br>relative density                         | no data available |
| Relative vapour<br>density                                 | no data available |
| Particle<br>characteristics                                | no data available |

## 10.Stability and reactivity

### 10.1Reactivity

no data available

### 10.2Chemical stability

Stable under recommended storage conditions.

### 10.3Possibility of hazardous reactions

no data available

## 10.4Conditions to avoid

no data available

## 10.5Incompatible materials

no data available

## 10.6Hazardous decomposition products

no data available

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## 11.Toxicological information

### Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### STOT-single exposure

no data available

### STOT-repeated exposure

no data available

### Aspiration hazard

no data available

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## 12.Ecological information

### 12.1Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

## 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

## 12.5 Other adverse effects

no data available

## 13. Disposal considerations

### 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14. Transport information

### 14.1 UN Number

|                            |                         |                         |
|----------------------------|-------------------------|-------------------------|
| ADR/RID: no data available | IMDG: no data available | IATA: no data available |
|----------------------------|-------------------------|-------------------------|

### 14.2 UN Proper Shipping Name

|                            |
|----------------------------|
| ADR/RID: no data available |
| IMDG: no data available    |
| IATA: no data available    |

### 14.3 Transport hazard class(es)

|                            |                         |                         |
|----------------------------|-------------------------|-------------------------|
| ADR/RID: no data available | IMDG: no data available | IATA: no data available |
|----------------------------|-------------------------|-------------------------|

### 14.4 Packing group, if applicable

|                            |                         |                         |
|----------------------------|-------------------------|-------------------------|
| ADR/RID: no data available | IMDG: no data available | IATA: no data available |
|----------------------------|-------------------------|-------------------------|

### 14.5 Environmental hazards

|             |          |          |
|-------------|----------|----------|
| ADR/RID: no | IMDG: no | IATA: no |
|-------------|----------|----------|

#### 14.6Special precautions for user

no data available

#### 14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

### 15.Regulatory information

#### 15.1Safety, health and environmental regulations specific for the product in question

| Chemical name                                                            | Common names and synonyms   | CAS number  | EC number   |
|--------------------------------------------------------------------------|-----------------------------|-------------|-------------|
| CALCIPOTRIOL<br>MONOHYDRATE                                              | CALCIPOTRIOL<br>MONOHYDRATE | 147657-22-5 | none        |
| European Inventory of Existing Commercial Chemical Substances (EINECS)   |                             |             | Not Listed. |
| EC Inventory                                                             |                             |             | Not Listed. |
| United States Toxic Substances Control Act (TSCA) Inventory              |                             |             | Not Listed. |
| China Catalog of Hazardous chemicals 2015                                |                             |             | Not Listed. |
| New Zealand Inventory of Chemicals (NZIoC)                               |                             |             | Not Listed. |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)       |                             |             | Not Listed. |
| Vietnam National Chemical Inventory                                      |                             |             | Not Listed. |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) |                             |             | Not Listed. |

### 16.Other information

#### Information on revision

|               |              |
|---------------|--------------|
| Creation Date | Aug 19, 2017 |
|---------------|--------------|

## Revision Date

Aug 19, 2017

### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

### References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

*Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.*