

# MATERIAL SAFETY DATA SHEET according to Regulation (EC) 1907/2006

Date: 20 September 2018

Product: BOVIKALC DRY mineral bolus for dairy cows.

# 1. Substance / preparation and company name

BOVIKALC DRY mineral bolus

Complementary mineral feed for dairy cows

Company: Boehringer Ingelheim Animal Health Denmark A/S

Business Unit Live Therapeutics & Nutraceuticals

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## 2. Composition/information on ingredients

Name	Formula	CAS No.
Calcium chloride (Dihydrate)	CaCl <sub>2</sub> .2H <sub>2</sub> O	10035-04-8
Ammonium chloride	NH <sub>4</sub> Cl	12125-02-9
Tap water	$H_2O$	N/A
Calcium sulphate (Hemihydrate)	CaSO <sub>4</sub> .½H <sub>2</sub> O	10034-76-1
Alfa-tocopheryl acetate (vit. E)	$C_{31}H_{52}O_3$	58-95-7
Cholecalciferol (Vitamin D <sub>3</sub> )	C <sub>27</sub> H <sub>44</sub> O	67-97-0
Sodium selenite	Na <sub>2</sub> SeO <sub>3</sub>	10102-18-8
Mono- and diglycerides of fatty acids esterified with acetic acid (Coating agent)		97593-30-1
Xanthan gum (powdering agent)	EU feed additive No. E 415	11138-66-2

# 3. Possible hazards

May cause eye and skin irritation upon direct contact.

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#### 4. First aid measures

On skin contact: Wash with soap and water. In case of persistent

discomfort seek medical attention.

On contact with eyes: Rinse thoroughly with plenty of water for at least 15

minutes keeping eyelid open. In case of persistent

discomfort seek medical attention

On ingestion: Toxicity following moderate ingestion is not expected.

Ingestion should be avoided.

On inhalation: Remove to fresh air. If discomfort persists, seek medical

attention.

### 5. Fire fighting measures

The product is non-combustible.

Hazardous combustion products: At high temperatures the product will

release ammonia.

Specific hazards during fire fighting: Wear respiratory protection.

6. Accidental release measures

Personal precautions: Review Sections 3, 4 and 8 before

proceeding with clean up

Environmental precautions: Not applicable

Methods for cleaning up: Sweep and wash spill site after clear up.

7. Handling and storage

General handling: Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Storage: Keep dry and store below 30° C.

The bolus will melt at temperatures > 35° C

Store in its sealed container.

The product is strongly hygroscopic. No other special measures necessary.

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# 8. Exposure controls and personal protection

Hand protection:

Wear protective gloves during handling.

Eye protection:

Wear safety glasses if risk of eye contact.

General safety and hygiene measures:

After handling, wash hands with soap

and water

# 9. Physical and chemical properties

Physical form:

Wax coated cylinder

Weight:

196 g per bolus

Colour:

White

Odour:

Odourless

Flash point:

not applicable.

Ignition temperature:

not applicable.

Solubility in water:

Partly soluble in water. Liberates heat upon dissolution

in water.

## 10. Stability and reactivity

Conditions to avoid:

Protect against moisture

Hazardous reactions:

None

Hazardous decomposition products:

None

## 11. Toxicological information

# Acute toxicity:

Oral:

LD 50 (rat)

 $> 4000 \text{ mg kg}^{-1}$ 

(calcium chloride, Vitamin D3, Sodium selenite)

Eyes:

Individual components may cause irritation of the eyes

Skin:

Individual components may cause irritation of the skin

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#### Sub acute toxicity:

Oral:

None expected

Eyes:

None expected

Skin:

None expected

Carcinogenicity: None expected

Mutagenicity:

None expected

Teratogenicity:

None expected

# 12. Ecological information

No data available to suggest any adverse effects

### 13. <u>Disposal considerations</u>

#### Disposal considerations

Product:

No special precautions. Observe local and national regulations.

Packaging

Packaging materials are suitable for recycling or for

materials:

disposal by incineration.

#### 14. Transport information

Not classified as hazardous under any transport regulations

## 15. Regulatory information

EU:

Complementary mineral feed

US:

Mineral supplement for animals

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## 16. Other information

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