

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 ₂ ·2H ₂ O	10035-04-8
Ammonium chloride	NH ₄ Cl	12125-02-9
Tap water	H ₂ O	N/A
Calcium sulphate (Hemihydrate)	CaSO ₄ ·½H ₂ O	10034-76-1
Alfa-tocopheryl acetate (vit. E)	C ₃₁ H ₅₂ O ₃	58-95-7
Cholecalciferol (Vitamin D ₃)	C ₂₇ H ₄₄ O	67-97-0
Sodium selenite	Na ₂ SeO ₃	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	<u>11138-66-2</u>

3. Possible hazards

May cause eye and skin irritation upon direct contact.

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.
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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.
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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.
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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.

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 mg kg ⁻¹ (calcium chloride, Vitamin D ₃ , 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. Disposal considerations

Disposal considerations

Product: No special precautions. Observe local and national regulations.

Packaging materials: Packaging materials are suitable for recycling or for 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

16. Other information

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