

**MATERIAL SAFETY DATA SHEET**

**1. Product and Company Identification**

<b>Product Name</b>	CLOBEK
<b>CAS#</b>	Mixture
<b>Product Use</b>	Medicated Feed Premix
<b>Manufacturer</b>	Biesterfeld International GmbH Ferdinandstr. 41 20095 Hamburg, Germany
<b>Registration Holder</b>	Animate Animal Health 43 Hornbill Road Rooihuiskraal, Centurion, 0157 South Africa Tel: +27 (0) 21 661 3485
<b>Emergency Phone Number</b>	+27 (0) 82 602 2038

**2. Hazards Identification**

<b>Emergency Overview</b>	CAUTION Contact may cause eye irritation
<b>Potential short term health effects</b>	
<b>Route of Exposure</b>	Eye, Skin contact, Inhalation, Ingestion
<b>Eye</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Target Organ</b>	Eye, Respiratory System, Skin
<b>Chronic effects</b>	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
<b>Signs and symptoms</b>	Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**3. Composition**

Ingredient(s)	CAS#	Percent (%)
Clopidol	2971-90-6	25%

**4. First Aid Measures**

<b>Eye contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Skin contact</b>	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire-fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Phosgene
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

### 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Methods for containment</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

### 7. Handling and Storage

<b>Handling</b>	Use good industrial hygiene practices in handling this material.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials.

### 8. Exposure Controls/ Personal Protection

#### Exposure limit values

Ingredient(s)	Exposure limit values
---------------	-----------------------

Clpidol	ACGIH-TLV TWA: 10 mg/m <sup>3</sup>
---------	--

**Engineering controls** General ventilation normally adequate.

**Personal protective equipment**

<b>Eye/Face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

Appearance	Powder
Colour	Beige to light brown
Form	Solid
Odour	Not available
Odour threshold	Not available
Physical state	Solid
pH	Not available
Freezing point	Not available
Boiling point	Not applicable
Pour point	Not available
Flash point	Not applicable
Evaporation Rate	Not available
Flammability limits in air, lower,% by volume	Not applicable
Flammability Limits in Air, Upper,% by Volume	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Specific gravity	Not available
Octanol/water coefficient	Not available
Auto-ignition temperature	Not applicable
Viscosity	Not applicable
Percent volatile	<10%

## 10. Stability and Reactivity

<b>Chemical stability</b>	Stable
<b>Conditions to avoid</b>	Do not mix with other chemicals
<b>Incompatible materials</b>	Acids, Oxidizers
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Phosgene when heated to decomposition.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.

## 11. Toxicological Information



**Component analysis – LC50**

<b>Ingredient(s)</b>	<b>LC50</b>
Clopidol	Not available
Component analysis - Oral LD50	
<b>Ingredient(s)</b>	<b>LD50</b>
Clopidol	Not available
<b>Effects of acute exposure</b>	
<b>Eye</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Sensitisation</b>	Non-hazardous by WHMIS criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS criteria.
<b>ACGIH - Threshold Limit Values - Carcinogens</b>	
Clopidol	2971-90-6
	A4 - Not Classifiable as a Human Carcinogen
<b>Mutagenicity</b>	Non-hazardous by WHMIS criteria
<b>Reproductive effects</b>	Non-hazardous by WHMIS criteria
<b>Teratogenicity</b>	Non-hazardous by WHMIS criteria
<b>Synergistic Materials</b>	Not available

**12. Ecological Information**

<b>Eco toxicity</b>	Components of this product have been identified as having potential environmental concerns.
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

**13. Disposal Considerations**

<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Review federal, provincial, and local government requirements prior to disposal.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available



#### 14. Transport Information

##### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods

#### 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS classification** Exempt - Registered product - (DIN 00656925)

##### Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

**Disclaimer** Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date** 23-Feb-2010

**Effective Date** 01-Apr-2010

**Prepared by** Dell Tech Laboratories Ltd. (519) 858-5021

**Other Information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.