# Elanco

## SAFETY DATA SHEET

#### 1. Identification

Product identifier

**Coban Premix** 

Other means of identification

**Item Code** 

AF1306, AF1309, AF1316, AF1318, AF1323, AF1324, MS8250, AF1321

**Synonyms** 

Coban 45 \* Coban 60 \* Coban 90 \* Monensin Sodium \* Monensin \* Coban

Recommended use

Veterinary Product

**Recommended restrictions** 

None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company Name** 

Elanco Animal Health

2500 Innovation Way Greenfield, IN 46140

US

Phone:

1-877-Elanco1 (1-877-352-6261)

Email:

lilly\_msds@lilly.com

**Emergency Telephone** 

Numbers:

Elanco Product Technical Support / Human or Animal Exposure Reporting:

1-888-545-5973

Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300

(Outside U.S. 1-703-527-3887)

## 2. Hazard(s) identification

**Physical hazards** 

Not classified.

**Health hazards** 

Acute toxicity, oral

Category 3

Serious eye damage/eye irritation

Category 1

Sensitization, respiratory

Category 1

Specific target organ toxicity, repeated

Category 2

exposure

**OSHA** defined hazards

Combustible dust

Label elements



Signal word

Danger

**Hazard statement** 

May form combustible dust concentrations in air.

H301

Toxic if swallowed.

H318

Causes serious eye damage.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H373

May cause damage to organs (Heart, muscles) through prolonged or repeated exposure.

#### **Precautionary statement**

#### Prevention

P260

Do not breathe dust/fume/gas/mist/vapors.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P264

Wash hands thoroughly after handling.

P285

In case of inadequate ventilation wear respiratory protection.

Response

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IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301 + P310

P330 Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340 P305 + P351 +

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P338 and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician. P310

Storage Not available.

**Disposal** 

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Hazard(s) not otherwise

None known.

classified (HNOC)

**Supplemental information** 

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Monensin sodium		22373-78-0	9 - 13.2
Excipient: Grain Dust		NA	84.8
Anti-Dusting Oil	MINERAL OIL	8012-95-1	2

**Composition comments** 

The anti-dusting oil reduces potential exposure under normal handling conditions of use.

4. First-aid measures

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned; Get medical

advice/attention.

Skin contact Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash

before reuse. Get medical attention if irritation develops and persists.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Immediate rinsing may prevent permanent damage. Get

medical attention immediately.

Give several glasses of water. Never give anything by mouth to a victim who is unconscious or is Ingestion

having convulsions. Call a physician or poison control center immediately.

Most important

symptoms/effects, acute and

delayed

Causes eye burns. May cause irritation of respiratory tract. May cause allergic respiratory reaction. May cause heart effects. May cause muscle effects.

Indication of immediate medical attention and special

treatment needed

**General information** 

Immediate rinsing may prevent permanent damage (eyes).

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible),

#### 5. Fire-fighting measures

Suitable extinguishing media

Water. Carbon dioxide (CO2), Dry chemical,

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment

and precautions for

firefighters

Wear self-contained breathing apparatus and protective clothing.

General fire hazards Dust may form explosive mixture with air.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Wear suitable protective clothing, gloves and eye/face protection. See Section 8 of the SDS for Personal Protective Equipment,

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Methods and materials for containment and cleaning up

Small Spillages:

Do not sweep. Collect spill using a vacuum cleaner with a HEPA filter. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping.

Large Spillages:

Prevent further migration into the environment. Remove sources of ignition. Collect in a non-combustible container for prompt disposal. Local authorities should be advised if significant spillages cannot be contained. Large spills due to traffic accidents, etc., should be reported immediately to CHEMTREC and Elanco Animal Health for assistance.

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

7. Handling and storage Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Keep away from heat and sources of ignition. Minimize dust generation and accumulation. Avoid release to the

environment.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Keep container tightly closed. Avoid contact with oxidizing agents. Do not store in open or unlabelled containers.

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Lilly (LEG) Components	Туре	Value	
Monensin sodium (CAS 22373-78-0)	TWA (12hrs)	15 ug/m3	
cupational exposure limits			

upational exposure limits ACGIH Components	Туре	Value	Form
Excipient: Grain Dust (CAS NA)	TWA	4 mg/m3	(grain dust)
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	Form
Anti-dusting oil (CAS 8012-95-1)	TWA	5 mg/m3	Inhalable fraction.
U.S OSHA			
Components	Туре	Value	Form
Excipient: Grain Dust (CAS NA)	TWA	10 mg/m3	(grain dust)
US. OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 1910,1000	)	
Components	Туре	Value	Form
Anti-dusting oil (CAS 8012-95-1)	PEL	5 mg/m3	Mist,
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	Form
Anti-dusting oil (CAS 8012-95-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
ogical limit values No h	iological exposure limits noted for the inc	radiant(a)	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Laboratory fume hood or local exhaust ventilation.

controls

## Individual protection measures, such as personal protective equipment

Eye/face protection Wear goggles/face shield.

Skin protection

Hand protection Chemical-resistant gloves and impermeable body covering to minimize skin contact. Chemical-resistant gloves and impermeable body covering to minimize skin contact. Other

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Use an approved respirator. Select appropriate respirator for physical characteristics of material.

Select respirator with appropriate protection factor.

Thermal hazards

General hygiene considerations

Not available.

NOT INTENDED FOR HUMAN USF.

Caution: Do not feed undiluted to animals. Product is for replacement chickens intended for use as cage layers only. Do not feed to laying chickens. Do not feed to chickens over 16 weeks of age. Do not allow horses, other equines, mature turkeys, or guinea fowl access to feed containing monensin sodium. Ingestion of monensin sodium by horses, mature turkeys, and guinea fowl has been fatal. Some strains of turkey coccidia may be monensin sodium tolerant or resistant. Monensin sodium may interfere with development of immunity to turkey coccidiosis. Coccidiosis risk in young turkeys not receiving anticoccidials outweighs the risk of infrequent coccidiosis outbreaks that may occur following drug withdrawal. Coccidiosis is more pathogenic to young than older turkeys, but non-immune turkeys may experience weight loss if infected after drug withdrawal. In the absence of coccidiosis in broiler chickens, the use of monensin sodium with no withdrawal period may limit feed intake resulting in reduced weight gain.

Use good industrial hygiene practices in handling this material.

In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Under normal use and handling conditions, wear goggles to protect eyes and wear impermeable gloves and protective equipment to avoid direct contact with skin. Wash thoroughly with soap and water after handling.

When mixing and handling, use protective clothing, impervious gloves, and dust respirator (recommended). Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse with plenty of water.

## 9. Physical and chemical properties

**Appearance** 

Dry flowable granules.

Physical state

Solid. Solid.

Form

Dark brown to Yellow.

Color

Odor

Detectable odor of amyl alcohol may be present.

**Odor threshold** 

No data available. 5 - 6 (50% suspension)

Melting point/freezing point

No data available.

Initial boiling point and

No data available,

boiling range

Flash point

No flash up to 65.6 C (150 F)

**Evaporation rate** Flammability (solid, gas) No data available. No test data available.

#### Upper/lower flammability or explosive limits

Flammability limit - lower

No data available.

(%)

Flammability limit -

No data available.

upper (%)

Explosive limit - lower

No ignition up to 2.0 oz/cu ft.

(%)

**Explosive limit - upper** 

No data available.

(%)

Vapor pressure No data available. Vapor density No data available. Relative density No data available.

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Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient (n-octanol/water)

No data available.

Auto-ignition temperature

365 °F (185 °C) (Coban 45)

374 °F (190 °C) (Coban 60) No data available.

Decomposition temperature **Viscosity** 

No data available.

Other information

MIT of dust layer: 190 degrees C (374 degrees F)

**Density** 

No data available.

**Explosive properties** 

Not explosive

Oxidizing properties

The substance or mixture is not classified as oxidizing.

Percent volatile

No data available.

9.2. Other information

**Minimum Ignition Temperature** 

374 °F (190 °C) MIT of Dust Layer

## 10. Stability and reactivity

Reactivity

Not available.

**Chemical stability** 

Material is stable under normal conditions. Hazardous polymerization does not occur.

Possibility of hazardous reactions

Conditions to avoid

None known.

**Incompatible materials** 

Strong oxidizing agents.

Hazardous decomposition

Fire or excessive heat may produce hazardous decomposition products.

products

## 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

Product	Species	Test Results
Coban Premix (CAS Mixture)		
Acute		
Dermal Programme 1		
LD	Rabbit	> 2000 mg/kg (Coban 45: mortality)
LD50	Rabbit	2000 mg/kg (Coban 60: по deaths or toxicity)
Inhalation		
LC50	Rat	4950 mg/m3, 1 hr (mortality)
Components	Species	Test Results
Monensin sodium (CAS 22373-7	78-0)	
Acute		
Dermal		
LD	Rabbit	> 500 mg/kg (24% monensin sodium mixture)
Inhalation		
LC50	Rat	> 370 mg/m3, 1 h (24% monensin sodium mixture)
Oral		
LD	Rat	> 300 (55% monensin sodium mixture)
LD50	Rat	34 mg/kg
Skin corrosion/irritation	Rabbit: Slight irritation. Based on available data, the classification criteria are not met.	

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Serious eye damage/eye

irritation

Rabbit: Corrosive. Immediate rinsing may prevent permanent damage.

Respiratory or skin sensitization

**Respiratory sensitization** Allergic reactions in a manufacturing setting have been reported. (Monensin Sodium)

Grain dusts may cause sensitization by inhalation.

Skin sensitization Did not cause sensitization on laboratory animals. (Monensin Sodium) Based on available data, the

classification criteria are not met,

**Germ cell mutagenicity** In vitro and in vivo tests did not show mutagenic effects. (Monensin Sodium)

Based on available data, the classification criteria are not met.

Carcinogenicity Animal testing did not show any carcinogenic effects, (Monensin Sodium)

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Anti-Dusting Oil (CAS 8012-95-1)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

No effects identified in animal studies. (Monensin Sodium) Based on available data, the

classification criteria are not met.

Specific target organ toxicity

- single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity

- repeated exposure

Heart effects (degenerative and reparative tissue changes, electrocardiogram changes, congestive

heart failure), muscle effects (skeletal muscle changes, elevated blood enzymes of muscle origin).

(Monensin Sodium)

Aspiration hazard No aspiration toxicity classification.

## 12. Ecological information

#### **Ecotoxicity**

Components		Species	Test Results
Monensin sodium (CAS	5 22373-78-0)		
Other	LC50	Quail	85.7 mg/kg, 14 d
Acute			
Other	EC50	Selenastrum capricornutum (new name Pseudokirchnerella subca	4.33 mg/l, 72 h (average specific growth rate)
Chronic			
Other	NOEC	Selenastrum capricornutum (new name Pseudokirchnerella subca	0.055 mg/l (biomass)
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	10.7 mg/l, 48 h
Fish	LC50	Bluegili (Lepomis macrochirus)	16.6 mg/l, 96 h
		Rainbow Trout	9 mg/l, 96 h

Persistence and degradability Photolysis half-life (days): 43.9

Photolysis rate constant (1/day): 0.0158 Hydrolysis: none measured (pH 5, 7, 9) Soil degradation half-life (days): 7.5

Greater than 50% loss in sandy, silt, and clay loam soils in less than 14 days. (Monensin Sodium)

No data is available on the degradability of this product.

**Bioaccumulative potential**No data available for this product.

Partition coefficient n-octanol / water (log Kow)

Monensin sodium 2.75, (pH 7) 3.79, (pH 9)

4.24, (pH 5)

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#### Mobility in soil

#### **Adsorption**

#### Soil/sediment sorption - log Koc

Monensin sodium

> 5.63

Result: (pH 4.5 and 6)

Other adverse effects

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Not available.

## **Ecotoxicological Properties**

**Drinking Water** 

Components	Test Results	
Monensin sodium 75 μg/l, (Lilly Aquatic Exposure Guideline)		
Chronic Exposure of Aquatic Organisms		
Components	Test Results	
Monensin sodium	55 μg/l, (Lilly Aquatic Exposure Guideline)	
Acute Exposure of Aquatic Organisms	•	
Components	Test Results	
Monensin sodium	562 µg/l, (Lilly Aquatic Exposure Guideline)	

## 13. Disposal considerations

Disposal instructions

Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to** This substance/mixture is not intended to be transported in bulk. **Annex II of MARPOL 73/78** and the IBC Code

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

## SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** 

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### **US. Massachusetts RTK - Substance List**

Anti-Dusting Oil (CAS 8012-95-1)

## US. New Jersey Worker and Community Right-to-Know Act

Anti-Dusting Oil (CAS 8012-95-1)

## US. Pennsylvania Worker and Community Right-to-Know Law

Anti-Dusting Oil (CAS 8012-95-1)

#### **US. Rhode Island RTK**

Not regulated.

## **US. California Proposition 65**

Not Listed.

#### International Inventories

Country(s) or region Inventory name

On inventory (yes/no)\*

No

Canada Canada Domestic Substances List (DSL)
Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

## 16. Other information, including date of preparation or last revision

**Issue date** 

10-20-2014

Version #

01

**Lilly Lab Code** 

Health: 3 Fire: 1 Reactivity: 0 Special 1: A

List of abbreviations

LEG = Lilly Exposure Guideline

**Disclaimer** 

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

Elanco Animal Health 00+1+317-276-2000 00+1-800-428-4441

**Revision Information** 

Product and Company Identification: Synonyms Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Ecological Information: Ecotox Property Data

Transport Information: Material Transportation Information

Regulatory Information: Risk Phrases - Class.

GHS: Classification

Material name: Coban Premix

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).