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 restrictionsNone 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

Material name: Coban Premix SDS US

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301 + P310 Rinse mouth. P330 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

and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician. P310

Storage Not available.

Disposal

P338

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

Hazard(s) not otherwise classified (HNOC)

None known.

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.

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

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

Immediate rinsing may prevent permanent damage (eyes).

General information

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

Special protective equipment

Fire or excessive heat may produce hazardous decomposition products.

and precautions for

Wear self-contained breathing apparatus and protective clothing.

firefighters

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.

Environmental precautions

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

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

Occupational exposure limits

ACGIH Components	Туре	Value	Form
Excipient: Grain Dust (CAS NA)	TWA	4 mg/m3	(grain dust)
US. ACGIH Threshold Lim	it Values		
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)
	s for Air Contaminants (29 CFR 19	=	_
Components	Туре	Value	Form
Anti-dusting oil (CAS 8012-95-1)	PEL	5 mg/m3	Mist.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
Anti-dusting oil (CAS 8012-95-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
logical limit values	No biological exposure limits noted to	for the ingredient(s).	
	Laboratory Completed and and and and and and and and and an		

Bio 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

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

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Respiratory protection

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 USE.

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 stateSolid.FormSolid.

Color Dark brown to Yellow.

Odor Detectable odor of amyl alcohol may be present.

Odor threshold No data available.

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

Upper/lower flammability or explosive limits

Flammability limit - lower No data available.

(%)

Flammability limit - No data available.

Explosive limit - lower

No ignition up to 2.0 oz/cu ft.

Explosive limit - upper

upper (%)

No data available.

(%)

(%)

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Material name: Coban Premix SDS US

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature 365 °F (185 °C) (Coban 45)

374 °F (190 °C) (Coban 60)

Decomposition temperature No data available.

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 374 °F (190 °C) MIT of Dust Layer

Temperature

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

Conditions to avoid None known.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Fire or excessive heat may produce hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
Coban Premix (CAS Mixture)		
Acute		
Dermal		
LD	Rabbit	> 2000 mg/kg (Coban 45: mortality)
LD50	Rabbit	2000 mg/kg (Coban 60: no deaths or toxicity)
Inhalation		
LC50	Rat	4950 mg/m3, 1 hr (mortality)
Components	Species	Test Results
Monensin sodium (CAS 22373-7	(8-0)	
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 toxicityNo 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

85.7 mg/kg, 14 d
85.7 mg/kg, 14 d
m (new name 4.33 mg/l, 72 h (average specific growth rate)
m (new name 0.055 mg/l (biomass)
10.7 mg/l, 48 h
irus) 16.6 mg/l, 96 h
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)

Material name: Coban Premix SDS US

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

Monensin sodium

Result: (pH 4.5 and 6)

Tost Posulte

Other adverse effects

Not available.

Ecotoxicological Properties

Drinking Water

Components	rest 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		

> 5.63

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

(SDWA)

Not regulated.

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 regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

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 SDS US

^{*}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).