

SAFETY DATA SHEET

1. Identification

Name of the substance or mixture (trade name)

Coban Premix

Synonyms Coban 45 * Coban 60 * Coban 90 * Monensin Sodium * Monensin * Coban Item Code AF1306, AF1309, AF1316, AF1318, AF1323, AF1324, MS8250, AF1321

Major recommended uses for the substance or mixture

Veterinary Product

Specific restrictions for use of

Not available.

the substance or mixture

Manufacturer/Importer/Distributor information

Company Name Elanco Saúde Animal Ltda

Address Av. Morumbi, 8264

Brooklin - CEP: 04703002

Sao Paulo -SP +55 11 2144.6974

E-mail elanco sds@elanco.com

Emergency Telephone

number

Telephone

CHEMTREC International: +1-703-527-3887

2. Hazards identification

Classification of the substance or mixture

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Serious eye damage/eye irritation Category 1
Sensitization, respiratory Category 1
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, Category 3

long-term hazard

GHS labeling elements, including precautionary statements

Hazard symbol(s)



Signal word Danger

Hazard statement(s)

H302 Harmful 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.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P260 Do not breathe dust/fume.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

Response

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

4766 Version #: 02 Issue date: 09-21-2016 Revision date: 02-15-2019

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

P330

P305 + P351 +

P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

2/7

and easy to do. Continue rinsing.

Storage Not available.

Disposal

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

Other hazards which do not result in classification

None known.

Rinse mouth.

Supplemental information None.

3. Composition/information on ingredients

Mixture

Common chemical name or technical name	CAS number	Concentration or concentration range
Monensin sodium	22373-78-0	9 - 13.2
Excipient: Grain Dust	NA	84.8
Anti-Dusting Oil	8012-95-1	2
MINERAL OIL		

Composition comments Remaining components of this product are non-hazardous and/or are present at concentrations

below reportable levels.

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

4. First-aid measures

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

Harmful if swallowed. Causes eye burns. May cause allergic respiratory reaction. Prolonged or

repeated exposure may cause: May cause heart effects. May cause muscle effects.

Personal protection for first-aid

responders

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

where possible).

Notes to physician Immediate rinsing may prevent permanent damage (eyes).

5. Fire-fighting measures

Means of fire extinguishing

Suitable extinguishing

media

Water. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Dust may form explosive mixture with air.

Fire or excessive heat may produce hazardous decomposition products.

Protective measures taken by

firefighting crews

Wear self-contained breathing apparatus and protective clothing.

6. Control measures for spills and leaks

Personal precautions, protective equipment and emergency procedures

To be taken by those who are not involved in rendering emergency services

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.

3/7

4766 Version #: 02 Issue date: 09-21-2016 Revision date: 02-15-2019

To be taken by those who are involved in rendering emergency services

Not available.

Environmental precautions

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

onto the ground.

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.

Other issues relating to spills and releases

Clean up in accordance with all applicable regulations.

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

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

ACGIH

Components	Туре	Value	Form
Excipient: Grain Dust	TWA	4 mg/m3	(grain dust)

Exposure limits

Elanco OEL Components

Components Type Value

Monensin sodium (CAS 22373-78-0)

TWA (12hrs)

15 ug/m3

Biological limit values

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s). Laboratory fume hood or local exhaust ventilation.

Personal protective measures

Eyes and face protection

Wear goggles/face shield.

Skin protection

Hand protection Chemical resistant gloves.

Other

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

Respiratory protection

Use an approved respirator. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

respirator.

Thermal hazards

Not available.

Product name: Coban Premix SDS BRAZIL 4/7

4766 Version #: 02 Issue date: 09-21-2016 Revision date: 02-15-2019

Hygiene measures

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 state Solid. **Form** Solid. Color Brown Odor Musty.

Odor threshold No data available. 5 - 6 (50% suspension) Melting point/freezing point No data available.

Initial boiling point and boiling temperature range

No flash up to 65.6 C (150 F) Flash point

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

Upper/lower flammability or explosive limits

Flammability limit - lower

No data available.

No data available.

Flammability limit - upper

No data available.

(%)

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.

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.

No data available.

Viscosity

5/7

4766 Version #: 02 Issue date: 09-21-2016 Revision date: 02-15-2019

Other physical and chemical parameters

Density No data available. **Explosive properties** Not explosive.

Minimum Ignition

374 °F (190 °C) MIT of Dust Layer

Temperature

Oxidizing properties The substance or mixture is not classified as oxidizing.

Percent volatile No data available.

10. Stability and reactivity

Reactivity Not water reactive.

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

products

Hazardous decomposition products formed under fire conditions...

11. Toxicological information

Acute toxicity Harmful if swallowed.

Product	Species	Test Results	
Coban Premix			
<u>Acute</u>			
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 22373-78-0)

Acute Dermal

Rabbit LD > 500 mg/kg (24% monensin sodium

mixture)

Inhalation

LC50 Rat > 370 mg/m3, 1 h (24% monensin sodium

mixture)

Oral

LD50 Rat

34 mg/kg Rabbit: Slight irritation.

Serious eye damage/eye

Skin irritation and corrosion

irritation

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

Did not cause sensitization on laboratory animals. (Monensin Sodium) Skin sensitization

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

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

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

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

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

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

classification criteria are not met.

4766 Version #: 02 Issue date: 09-21-2016 Revision date: 02-15-2019

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)

No aspiration toxicity classification. **Aspiration hazard**

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
Monensin sodium (CAS 22	373-78-0)		
Aquatic			
Algae	EC50	Green Algae (Pseudokirchneriella subcapitata)	4.33 mg/l, 72 h (average specific growth rate)
	NOEC	Green Algae (Pseudokirchneriella subcapitata)	0.055 mg/l (biomass)
Crustacea	EC50	Daphnia magna	10.7 mg/l, 48 h
Fish	LC50	Bluegill (Lepomis macrochirus)	16.6 mg/l, 96 h
		Rainbow Trout	9 mg/l, 96 h
Terrestrial			
Other	LC50	Quail	85.7 mg/kg, 14 d

LILLY AQUATIC EXPOSURE GUIDELINES:

Monensin Sodium

Drinking water LAEG (at the point where surface water is taken for drinking water):

75 µg/l 55 μg/l

Chronic LAEG (at the edge of the chronic mixing zone): Acute LAEG (at the edge of the acute mixing zone):

562 µg/l

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)

Mobility in soil Not available.

Adsorption

Soil/sediment sorption - log Koc

Monensin sodium > 5.63

Result: (pH 4.5 and 6)

Other adverse effects Not available.

13. Considerations on final disposal

Recommended methods for final destination

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

14. Transport information

National regulations

ANTT

Not regulated as dangerous goods.

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

4766 Version #: 02 Issue date: 09-21-2016 Revision date: 02-15-2019

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

15. Regulatory information

Federal regulations

This chemical product safety data sheet was prepared in accordance with the Brazilian Standard (ABNT NBR 14725-4: (Safety data sheet for chemicals (SDS))).

Chemical Products for the Manufacture and Synthesis of Narcotics and Psychotropic Subject to Control of the Ministry of Justice (Resolution No. 169 of 15 August 2017, Annex I, List D2)

Not listed.

Controlled products that must be reported to the Army (Decree No. 3655, Annex 1, as amended)

Not applicable.

Drug precursors (Ordinance No. 1.274)

Not applicable.

Ozone depleting substances (Decree No. 99.280, Annexes A, B, C and E, as amended)

Not applicable.

POPs (Decree No. 5.472 promulgates the Stockholm Convention on persistent organic pollutants)

Use and physiological effects of chemical products (Decree No. 3665, Annex 3)

Not applicable.

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

Significant information, yet not specifically related to the

previous sections

Not available.

Legends and 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 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 0011+1-877-352-6261 0011+1-800-428-4441