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# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: VALBAZEN® (Albendazole) suspension

Trade Name: VALBAZEN®

Synonyms: Albendazole suspension , VALBAZEN® SUSPENSION, Valbazen® Ultra, Valbazen® For

Cattle

Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product used as anti-worm agent (anthelmintic)

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.

100 Campus Drive, P.O. Box 651

Florham Park, New Jersey 07932 (USA)

Zoetis Belgium S.A.

Mercuriusstraat 20
1930 Zaventem

Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896 Belgium

Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number (North America): Emergency telephone number (Australia):

Contact E-Mail: VMIPSrecords@zoetis.com

## 2. HAZARDS IDENTIFICATION

**Appearance:** White suspension

Classification of the Substance or Mixture

Reproductive Toxicity: Category 1B

Specific target organ systemic toxicity (repeated exposure): Category 2

Acute aquatic toxicity: Category 1 Chronic aquatic toxicity: Category 1

**Label Elements** 

Signal Word: Danger

Hazard Statements: H360D - May damage the unborn child H373 - May cause damage to organs through

prolonged or repeated exposure

(adrenal gland, blood forming organs, reproductive system, liver)

H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P314 - Get medical attention/advice if you feel unwell

P273 - Avoid release to the environment

P391 - Collect spillage P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations

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Other Hazards

**Short Term:**May cause eye and skin irritation (based on components). May cause allergic skin reaction. **Long Term:**Repeat-dose studies in animals have shown a potential to cause adverse effects on testes

and the developing fetus.

Known Clinical Effects: Adverse effects seen in clinical use include gastrointestinal discomfort, dizziness, and

headache.

**Australian Hazard Classification** 

(NOHSC):

Hazardous Substance. Non-Dangerous Goods.

**Note:** This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous** 

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Albendazole	54965-21-8	259-414-7	STOT RE2 (H373) Repr. 1B (H360D) Aq. Acute 1 (H400) Aq. Chronic 1 (H410)	<12
Glycerol	56-81-5	200-289-5	Not Listed	<10
Benzoic Acid	65-85-0	200-618-2	Not Listed	<10
Potassium sorbate	590-00-1	Not Listed	Not Listed	<10

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Simethicone	8050-81-5	Not Listed	Not Listed	*
Magnesium aluminum silicate	1327-43-1	215-478-8	Not Listed	*
Sorbitan monolaurate	1338-39-2	215-663-3	Not Listed	*
Carboxymethylcellulose sodium	9004-32-4	Not Listed	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	*

Additional Information: \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

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## 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention **Eve Contact:** 

immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure. See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

**Medical Conditions** 

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use water, carbon dioxide, foam or dry chemical extinguishers.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** 

Products:

Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

#### **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

Collecting: area thoroughly.

**Additional Consideration for** 

Non-essential personnel should be evacuated from affected area. Report emergency Large Spills:

situations immediately. Clean up operations should only be undertaken by trained personnel.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

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## 7. HANDLING AND STORAGE

When handling, use appropriate personal protective equipment (see Section 8). Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): No data available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

Refer to available public information for specific member state Occupational Exposure Limits.

**Albendazole** 

**Zoetis OEL TWA 8-hr** 200 μg/m<sup>3</sup>

**Glycerol** 

**Australia TWA** 10 mg/m<sup>3</sup> **Belgium OEL - TWA** 10 mg/m<sup>3</sup> Czech Republic OEL - TWA 10 mg/m<sup>3</sup> Estonia OEL - TWA 10 mg/m<sup>3</sup> **Finland OEL - TWA** 20 ma/m<sup>3</sup> France OEL - TWA 10 mg/m<sup>3</sup> 50 mg/m<sup>3</sup> Germany (DFG) - MAK **Greece OEL - TWA** 10 mg/m<sup>3</sup> Ireland OEL - TWAs 10 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 15 mg/m<sup>3</sup> **Poland OEL - TWA** 10 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> Portugal OEL - TWA Spain OEL - TWA 10 mg/m<sup>3</sup> 50 mg/m<sup>3</sup> **Switzerland OEL -TWAs** 

**Benzoic Acid** 

Latvia OEL - TWA 5 mg/m<sup>3</sup>

**Exposure Controls** 

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Personal Protective

**Equipment:** 

Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

**Skin:** Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

**Respiratory protection:** If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid suspension Color: White

Odor: Characteristic Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available

Water solubility: 0.53 mg/L (at 25°C and pH 7)

Water Solubility: Insoluble pH: 4.0 - 5.25

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

**Albendazole** 

Predicted 7.4 Log D 3.06

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available
No data available
1.0 - 1.04
No data available
No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

Polymerization:

No data available
No data available
Will not occur

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition

Thermal decomposition products may include carbon monoxide, carbon dioxide and other toxic

**Products:** vapors.

## 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: Toxicological properties of the formula

Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation.

Routes of exposure: eye contact, skin contact

Acute Toxicity: (Species, Route, End Point, Dose)

Sorbitan monolaurate

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## 11. TOXICOLOGICAL INFORMATION

= 33600 mg/kgOral LD 50 Rat

#### Carboxymethylcellulose sodium

Oral LD50 > 27,000 mg/kg Mouse Oral LD50 27,000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

#### Polysorbate 80

Oral LD50 25 g/kg

#### **Benzoic Acid**

Rat Oral LD50 1700 mg/kg Rat Oral LD50 2350 mg/kg

#### **Albendazole**

Oral LD50 > 3000 mg/kg Mouse Rat Oral LD50 > 1320 mg/kg

#### Potassium sorbate

Mouse Oral LD50 3800 mg/kg Oral LD50 4340 mg/kg

**Acute Toxicity Comments:** 

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

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#### Irritation / Sensitization: (Study Type, Species, Severity)

#### **Benzoic Acid**

Skin Irritation Rabbit Mild Eye Irritation Rabbit Severe

#### **Albendazole**

Eye Irritation Rabbit Non-irritating Skin Irritation Rabbit Non-irritating

Skin Sensitization - Beuhler Guinea Pig Negative

## Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

#### Sorbitan monolaurate

13 Week(s) Rat Oral =112 g/kgLOAEL Liver, Kidney, Bladder, Ureter

#### Carboxymethylcellulose sodium

13 Week(s) Rat Oral LOAEL 227 g/kg Liver, Kidney, Ureter, Bladder

#### **Albendazole**

4 Week(s) Rat Oral 25 mg/kg/day NOAEL Adrenal gland, Blood forming organs, Male reproductive system, Spleen 3 Month(s) Rat Oral 30 mg/kg/day NOAEL No effects at maximum dose

Mouse Oral 20 (M); 40 (F) mg/kg/day **NOAEL** Liver 90 Day(s)

4 Week(s) Dog Oral 4 mg/kg/day NOAEL Adrenal gland, Blood forming organs, Bone Marrow, Male reproductive system **NOAEL** Blood forming organs, Kidney, Liver, Female reproductive system, Male 6 Month(s) Dog Oral 5 mg/kg/day

reproductive system

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## 11. TOXICOLOGICAL INFORMATION

## Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

#### **Albendazole**

Prenatal & Postnatal Development Rat Oral 6 mg/kg/day NOAEL Developmental toxicity
Prenatal & Postnatal Development Mouse Oral 30 mg/kg/day NOAEL No effects at maximum dose
Reproductive & Fertility Rat Oral 1 mg/kg/day NOAEL Negative

Prenatal & Postnatal Development Rabbit Oral 5 mg/kg/day NOAEL Developmental toxicity,

## Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

#### **Albendazole**

Bacterial Mutagenicity (Ames) Salmonella Negative
In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative
Cell Transformation Assay Mouse Negative

#### Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

#### **Albendazole**

25 Month(s) Mouse Oral 400 mg/kg/day NOAEL Not carcinogenic 28 Month(s) Rat Oral 20 mg/kg/day NOAEL Not carcinogenic

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Product Level Toxicity Data Acute Toxicity Estimate (ATE), oral

>5000 mg/kg

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## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties of the formulation have not been investigated. The following

information is available for the individual ingredients. Releases to the environment should be

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avoided. Not readily biodegradable.

**Toxicity:** 

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

**Albendazole** 

Daphnia magna (Water Flea) TAD 4.08 EC50 48 Hours 0.024 mg/L

Pseudokirchneriella subcapitata (Green Alga) OECD 201 EC50 72 Hours > 0.42 mg/L

Aquatic Toxicity Comments: A greater than symbol (>) indicates that aquatic toxicity was not observed at the maximum

dose tested.

Persistence and Degradability: Albendazole Not Ready

**Bio-accumulative Potential:** 

**Albendazole** 

Predicted 7.4 Log D 3.06

Mobility in Soil: No data available

## 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

## 14. TRANSPORT INFORMATION

As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

UN number: UN 3083

**UN proper shipping name:** Environmentally hazardous substances, liquid, n.o.s. (contains Albendazole)

Transport hazard class(es): 9
Packing group: |||

Environmental Hazard(s): Marine Pollutant

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Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

DOT / ANTT: Not regulated for transportation

U.S. DOT Reportable Quantity (RQ), 49 CFR 172.101 Appendix A:

**Benzoic Acid** 

CERCLA/SARA Hazardous Substances 5000 lb and their Reportable Quantities: 2270 kg

## 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A Class D, Division 2, Subdivision B

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



## **Albendazole**

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

Schedule 5
Schedule 6

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Schedule 4

Schedule 5
Schedule 5
Schedule 6

**Glycerol** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Not Listed

Not Listed

Present

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## 15. REGULATORY INFORMATION

REACH - Annex V - Exemptions from the obligations of Register:

Present if not chemically modified, except they meet the criteria for classification as dangerous according to Directive 67/548/EEC, except those only classified as flammable [R10], as a skin irritant [R38] or as an eye irritant [R36], except they are persistent, bioaccumulative, and toxic or very persistent and very bioaccumulative in accordance with the criteria set out in Annex XIII, except they were identified in accordance with Article 59[1] at least two years previously as substances giving rise to an

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equivalent level of concern 200-289-5

**EU EINECS/ELINCS List** 

**Benzoic Acid** 

CERCLA/SARA 313 Emission reporting

CERCLA/SARA Hazardous Substances

and their Reportable Quantities:

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed
Present
Present
200-618-2

Potassium sorbate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

EU EINECS/ELINCS List

Not Listed

Not Listed

**Simethicone** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Magnesium aluminum silicate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

215-478-8

Sorbitan monolaurate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

215-663-3

Carboxymethylcellulose sodium

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

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## 15. REGULATORY INFORMATION

Polysorbate 80

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

## **16. OTHER INFORMATION**

## Text of CLP/GHS Classification abbreviations mentioned in Section 3

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure Reproductive toxicity-Cat.1B; H360D - May damage the unborn child Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects

**Data Sources:** The data contained in this SDS may have been gathered from confidential internal sources,

raw material suppliers, or from the published literature.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 11 - Toxicology Information.

Updated Section 14 - Transport Information.

**Prepared by:** Toxicology and Hazard Communication

Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**