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

Product Identifier

Material Name: Valbazen™ Suspension

Trade Name: Valbazen, Valbantel

Synonyms: Valbantel 1.9% Suspension; Albendazole/Closantel; Valbazen 1.9% Suspension

Chemical Family: Benzimidazole

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

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

Restrictions on Use: Not for human use

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: Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail: VMIPSrecords@zoetis.com

2. HAZARDS IDENTIFICATION

Appearance: Clear Pale Brown Liquid

Classification of the Substance or Mixture

GHS - Classification

Reproductive Toxicity: Category 1B

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

Acute aquatic toxicity: Category 2 Chronic aquatic toxicity: Category 2

EU Classification:

EU Indication of danger: Toxic to reproduction, Category 2

Dangerous for the Environment

EU Symbol: T N

EU Risk Phrases:

R61 - May cause harm to the unborn child.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Label Elements

Signal Word: Danger

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2. HAZARDS IDENTIFICATION

Hazard Statements: H360D - May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

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

H411 - 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

P273 - Avoid release to the environment

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

P314 - Get medical attention/advice if you feel unwell

P391 - Collect spillage P405 - Store locked up

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



Other Hazards Short Term:

May produce slight eye irritation. Signs and symptoms might include redness, swelling, blurred vision or pain. May cause slight skin irritation. Signs and symptoms might include skin rash,

itching, redness or swelling.

Long Term: May cause damage to organs; may have the potential to produce effects on the developing

fetus.

Australian Hazard Classification

(NOHSC):

Note:

Hazardous Substance. Non-Dangerous Goods.

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning 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	EU Classification	GHS Classification	%
Propylene glycol	57-55-6	200-338-0	Not Listed	Not Listed	10
Closantel sodium	57808-65-8	260-967-1	Xn; R22 Repr. 3; R62/63 Xn; R48/22 N; R51/53	Acute tox. 3 (H301) Repr. 2 (H361) STOT RE 2 (H373) Aq. Acute 2 (H401) Aq. Chronic 2 (H411)	3.0

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3. COMPOSITION/INFORMATION ON INGREDIENTS							
Albendazole	54965-21-8	259-414-7	Xn;R48/22 Repr.Cat.2;R61 N;R50/53	STOT RE2 (H373) Repr. 1B (H360D) Aq. Acute 1 (H400) Aq. Chronic 1 (H410)	1.9		
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	Not Listed	<1.0		
Sodium Lauryl Sulfate	151-21-3	205-788-1	Xn R22 T R24	Acute Tox 4 (H302) Acute Tox 3 (H311)	<1.0		

Ingredient	CAS Number	EU EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Water, purified	7732-18-5	231-791-2	Not Listed	Not Listed	*
Carboxymethylcellulose sodium	9004-32-4	Not Listed	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 R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures

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

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 None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire.

Products:

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

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Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust and mist generation. 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. Place waste in an appropriate container for disposal.

Additional Consideration for

Large Spills:

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

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

7. HANDLING AND STORAGE

Precautions for Safe Handling

When handling, use proper personal protective equipment as specified in Section 8. Avoid inhalation and contact with skin, eye, and clothing. Wash hands and any exposed skin after removal of PPE. Avoid open handling. Use local exhaust ventilation or perform work under fume hood/fume cupboard. 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 at room temperature in properly labeled containers. Keep away from heat, sparks and

flames.

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.

Propylene glycol

Australia TWA 150 ppm 474 mg/m³

10 mg/m³

Ireland OEL - TWAs 150 ppm 470 mg/m³

10 mg/m³ 7 mg/m^3

Latvia OEL - TWA Lithuania OEL - TWA 7 mg/m^3

Albendazole

Zoetis OEL TWA 8-hr 200µg/m³

Microcrystalline cellulose

ACGIH Threshold Limit Value (TWA) 10 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Australia TWA 10 mg/m³ 10 mg/m³ **Belgium OEL - TWA** 10 mg/m³ Estonia OEL - TWA 10 mg/m³ France OEL - TWA 10 ma/m³ **Ireland OEL - TWAs** 4 mg/m³ Latvia OEL - TWA 2 mg/m³ **Vietnam OEL - TWAs** 10 mg/m³ 5 mg/m³ **OSHA - Final PELS - TWAs:** 15 mg/m³ 10 mg/m³ Portugal OEL - TWA 10 mg/m³ Romania OEL - TWA 10 mg/m³ Spain OEL - TWA

Sodium Lauryl Sulfate

Zoetis OEL TWA 8-hr 300µg/m³

Exposure Controls

Equipment:

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

3 mg/m³

containment, local exhaust ventilation, or other engineering controls to maintain airborne levels

below recommended exposure limits.

Personal Protective

Switzerland OEL -TWAs

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

protective equipment (PPE).

Hands: Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

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. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors

are likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:Pale brownOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available Water Solubility: No data available

pH: 8.5 - 10

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):

No data available

No data available

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Relative Density: 1.02 - 1.04 g/ml

Viscosity: 70 - 150 cPs at 20C/68F

Flammablity:

Autoignition Temperature (Solid) (°C):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data availableUpper Explosive Limits (Liquid) (% by Vol.):No data availableLower Explosive Limits (Liquid) (% by Vol.):No data available

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 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)

Albendazole

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

Closantel sodium

Rat Oral LD50 262 mg/kg

Propylene glycol

Rat Oral LD 50 22,000 mg/kg Mouse Oral LD 50 24,900mg/kg Rabbit Dermal LD 50 20,800mg/kg

Carboxymethylcellulose sodium

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

Microcrystalline cellulose

Rat Oral LD50 > 5000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

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11. TOXICOLOGICAL INFORMATION

Sodium Lauryl Sulfate

Rat Oral LD50 977 mg/kg Rabbit Dermal LD50 580mg/kg Rat Inhalation LC50 > 3900mg/m³ 1 h

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

Albendazole

Eye Irritation Rabbit Non-irritating
Skin Irritation Rabbit Non-irritating
Skin Sensitization - Beuhler Guinea Pig Negative

Propylene glycol

Skin Irritation Rabbit Mild Eye Irritation Rabbit Mild

Microcrystalline cellulose

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

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

Albendazole

4 Week(s) Oral 25 mg/kg/day NOAEL Adrenal gland, Blood forming organs, Male reproductive system, Spleen Rat No effects at maximum dose 3 Month(s) Oral 30 mg/kg/day NOAEL Rat 90 Day(s) Mouse Oral 20 (M); 40 (F) mg/kg/day NOAEL Liver 4 Week(s) Dog Oral 4 mg/kg/day NOAEL Adrenal gland, Blood forming organs, Bone Marrow, Male reproductive system Blood forming organs, Kidney, Liver, Female reproductive system, Male 6 Month(s) Dog Oral 5 mg/kg/day NOAEL reproductive system

Carboxymethylcellulose sodium

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

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Albendazole

Prenatal & Postnatal Development Oral 6 mg/kg/day NOAEL Developmental toxicity Rat 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

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11. TOXICOLOGICAL INFORMATION

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), > 5000 mg/kg

oral

Acute Toxicity Estimate (ATE), > 5000 mg/kg

dermal

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated. The following information is available for

the individual ingredients. Releases to the environment should be avoided.

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

Persistence and Degradability: Albendazole Not Ready

Bio-accumulative Potential: No data available

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.

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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 3082

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

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

Environmental Hazard(s): Marine Pollutant

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

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

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.



Propylene glycol

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

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not Eisted

Not 200-338-0

Closantel sodium

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling

Not Listed

Not Listed

Not Listed

Schedule 6

for Drugs and Poisons:

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15. REGULATORY INFORMATION

EU EINECS/ELINCS List 260-967-1

Albendazole

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

Not Listed

Not Listed

Not Listed

Schedule 4

Schedule 4

Schedule 5

Schedule 6

EU EINECS/ELINCS List 259-414-7

Microcrystalline cellulose

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Not Listed

Not Listed

Present

Present

REACH - Annex XVII - Restrictions on CertainUse restricted. See item 9[f]. powder

Dangerous Substances:

EU EINECS/ELINCS List 232-674-9

Sodium Lauryl Sulfate

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Standard for the Uniform Scheduling

Not Listed

Not Listed

Not Listed

Present

Schedule 6

for Drugs and Poisons:

EU EINECS/ELINCS List 205-788-1

Water, purified

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed
Present
Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

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

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

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Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure

Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life

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

Hazardous to the aquatic environment, acute toxicity-Cat.2; H401 - Toxic to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.2; H411 - Toxic to aquatic life with long lasting effects

Reproductive toxicity-Cat.1B; H360D - May damage the unborn child

Reproductive toxicity-Cat.2; H361 - Suspected of damaging fertility or the unborn child

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed

Acute toxicity, dermal-Cat.3; H311 - Toxic in contact with skin

Xn - Harmful

N - Dangerous for the environment Toxic to Reproduction: Category 2 Toxic to Reproduction: Category 3

T - Toxic

ZT00364

R22 - Harmful if swallowed.

R61 - May cause harm to the unborn child.

R24 - Toxic in contact with skin.

R62 - Possible risk of impaired fertility.

R63 - Possible risk of harm to the unborn child.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 2 - Hazard Identification. Updated Section 8 - Exposure Controls / Personal

Protection. 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