

Revision date: 11-Feb-2014

Version: 3.0

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

Product Identifier

Material Name: Avatec 20%

Trade Name:

Avatec

Chemical Family:

Mixture

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

intended Use:

Veterinary product Feed additive

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)

Rocky Mountain Poison Control Center Phone: 1-866-531-8896

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

Zoetis Belgium S.A. Mercuriusstraat 20

1930 Zaventem

Belgium

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail:

VMIPSrecords@zoetis.com

Emergency telephone number:

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

2. HAZARDS IDENTIFICATION

Appearance:

Light brown powder

Classification of the Substance or Mixture

GHS - Classification

Acute Oral Toxicity: Category 4

Serious Eye Damage/Eye Irritation: Category 2B

Reproductive Toxicity: Category 1B Acute aquatic toxicity: Category 3 Chronic aquatic toxicity: Category 3

US OSHA Specific - Classification

Physical Hazard: Combustible Dust

EU Classification:

EU Indication of danger: Toxic to Reproduction: Category 2

Irritant

EU Symbol:

T Xi

EU Risk Phrases:

R22 - Harmful if swallowed. R36 - Irritating to eyes.

R61 - May cause harm to the unborn child.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Label Elements

710105

AVATEC

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2. HAZARDS IDENTIFICATION

Signal Word:

Danger

Hazard Statements:

H360 - May damage fertility or the unborn child

H320 - Causes eye irritation H302 - Harmful if swallowed

H412 - Harmful to aquatic life with long lasting effects May form combustible dust concentrations in air

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

P264 - Wash hands thoroughly after handling

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P273 - Avoid release to the environment

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P301+ P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel

unwell

P330 - Rinse mouth

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

P405 - Store locked up

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





Other Hazards

Short Term: Long Term: May be harmful if inhaled. (based on components)

Animal studies have shown a potential to cause adverse effects on the fetus.

Australian Hazard Classification

Hazardous Substance. Non-Dangerous Goods.

(NOHSC):

Note:

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

Į	Hazardous					
	Ingredient	CAS Number	EU	EU Classification	GHS	%
ı	•		EINECS/ELINCS		Classification	
١			List			

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3. COMPOSITION/INFORMATION ON INGREDIENTS					
asalocid sodium	25999-20-6	247-400-3	T;R25 Xn;R21 Xn;R20 Xi;R36 Repro. Cat. 2;R61 N;R51/53	Acute Tox. Cat. 3 (H301) Acute Tox. Cat. 4 (H312) Acute Tox. Cat. 4 (H332) Eye Irrit. Cat. 2B (H320) Repro. Cat. 1B (H360) Aq. Acute Cat. 2 (H401) Aq. Chronic Cat. 2 (H411)	20

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Lecithin	8002-43-5	232-307-2	Not Listed	Not Listed	*
Soybean oil	8001-22-7	232-274-4	Not Listed	Not Listed	*
Corncob meal	68525-86-0	271-199-1	Not Listed	Not Listed	60-80

Additional Information:

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

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

Breathing dust may worsen asthma symptoms.

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.

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Special Hazards Arising from the Substance or Mixture

Hazardous Combustion

Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards:

Dust can form an explosive mixture in air. Fine particles (such as dust and mists) may fuel

fires/explosions.

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

Avoid dust formation. 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 /

Collecting:

Contain the source of the spill if it is safe to do so. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures.

Collect spilled material by a method that controls dust generation. 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

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Minimize dust generation and accumulation. Use with adequate ventilation. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. 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. Keep in a cool, well-ventilated place. Keep away from

heat, sparks, flame, and other sources of ignition.

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.

Corncob meal

Austria OEL - MAKs Slovenia OEL - TWA

4 mg/m³

4 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Lasalocid sodium

Zoetis OEB OEB 3 (control exposure to the range of 10ug/m³ to < 100ug/m³)

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.

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

Personal Protective R

Equipment: 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: Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection, with appropriate protection factors, should be used to minimize exposure. If airborne exposures

are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB

range.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Powder

Color: Odor Threshold: Light brown No data available.

Odor: Molecular Formula: No data available. Mixture

Molecular Weight:

Mixture

Solvent Solubility:

No data available

Water Solubility: pH:

Insoluble

pKa: Melting/Freezing Point (°C): No data available. 5.66 (lasalocid sodium) No data available

Boiling Point (°C): No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

Lasalocid sodium

Measured 7 Log P 2.3

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

No data available No data available No data available

Flammablity:

Viscosity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids): Flash Point (Liquid) (°C): No data available No data available No data available

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

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

No data available No data available

10. STABILITY AND REACTIVITY

Reactivity:

No data available

No data available

Chemical Stability:

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: Conditions to Avoid: Incompatible Materials:

Keep away from heat, spark, flames and all other sources of ignition.

As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition

Products:

Thermal decomposition products may include carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information:

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

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

Lasalocid sodium

Mouse Oral LD50 122 mg/kg Rat Orai LD50 146 mg/kg Rabbit Dermal LD50 1400 mg/kg Rat Inhalation LC50/4h 2.65 mg/L

Lecithin

Rat Oral LD50 > 8 ml/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.

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

Lasalocid sodium

Eve Irritation Rabbit Irritant Skin Irritation Rabbit Non-irritating

Skin Sensitization - GPMT Guinea Pig Negative

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

Lasalocid sodium

13 Week(s) Oral 1 mg/kg/day **NOEL** Blood forming organs

13 Week(s) Dog Oral 2 mg/kg/day NOEL Liver

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

Lasalocid sodium

Embryo / Fetal Development Rabbit Oral 0.5 mg/kg/day **NOEL** Fetotoxicity, Maternal toxicity

Embryo / Fetal Development Rat Oral 3 mg/kg/day **NOEL Maternal Toxicity**

Prenatal & Postnatal Development Oral 0.5 mg/kg/day **Embryotoxicity** Rat NOAEL

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11. TOXICOLOGICAL INFORMATION

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

Lasalocid sodium

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative In Vitro Mitotic Gene Conversion Saccharomyces cerevisiae Negative In Vitro Mammalian Cell Mutagenicity Hamster Lung Cells Negative Unscheduled DNA Synthesis Rat Hepatocyte Negative Chromosome Aberration Fungi Human Lymphocytes Negative

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

Lasalocid sodium

2 Year(s) Rat Oral 10 mg/kg/day NOEL Not carcinogenic

2 Year(s) Mouse Oral 120 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) ca. 730 mg/kg

Oral calculated:

Acute Toxicity Estimate (ATE) >5000 mg/kg

Dermal calculated:

Acute Toxicity Estimate (ATE)

Inhalation calculated:

>5 mg/L

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12. ECOLOGICAL INFORMATION

Environmental Overview:

Environmental properties of the formulation have not been thoroughly investigated. Releases to the environment should be avoided. See Aquatic toxicity data of the active ingredient,

below:

Toxicity:

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

Lasalocid sodium

Daphnia magna (Water Flea) OECD EC50 48 Hours 5.4 mg/L Brachydanio rerio (Zebra fish) OECD LC50 96 Hours 2.5 mg/L

Activated sludge OECD EC50 3 Hours > 1000 mg/L

Scenedesmus subspicatus (Green Alga) OECD EC50 72 Hours 2.0 mg/L

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

Lasalocid sodium

Eisenia foetida (Earthworm) OECD NOEC 28 Days 82.4 mg/kg

Persistence and Degradability:

No data available

Bio-accumulative Potential:

Lasalocid sodium

Measured 7 Log P 2.3

Mobility in Soll:

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

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, iATA, or IMDG regulations.

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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 B Class D, Division 2, Subdivision A

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



Lecithin

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	

EU EINECS/ELINCS List

232-307-2

Lasalocid sodium

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	247-400-3

Soybean oll

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	232-274-4

Corncob meal

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	271-199-1

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 Acute toxicity, dermal-Cat.4; H312 - Harmful in contact with skin Acute toxicity, inhalation-Cat.4: H332 - Harmful if inhaled Serious eye damage/eye irritation-Cat. 2B; H320 - Causes eye irritation Reproductive toxicity-Cat.1B; H360 - May damage fertility or the unborn child 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

T - Toxic Xi - Irritant Xn - Harmful

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

R20 - Harmful by inhalation. R21 - Harmful in contact with skin.

R25 - Toxic if swallowed. R36 - Irritating to eyes.

R61 - May cause harm to the unborn child.

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

Data Sources:

The data contained in this MSDS 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 3 - Composition / Information on Ingredients. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 14 - Transport Information. Updated Section 15 - Regulatory

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