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

**Product Identifier** 

**Material Name: Toceranib Phosphate Tablets** 

Trade Name: PALLADIA Chemical Family: Mixture

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

**Intended Use:** Veterinary product for the treatment of tumors

**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: Red, Blue, or Orange Tablets

**Classification of the Substance or Mixture** 

**GHS - Classification** 

Reproductive Toxicity: Category 1B

Specific target organ systemic toxicity (repeated exposure): Category 1

**EU Classification:** 

EU Indication of danger: Toxic to Reproduction: Category 2

Toxic

EU Symbol: T

EU Risk Phrases:

R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.

R61 - May cause harm to the unborn child.

**Label Elements** 

Signal Word: Danger

Hazard Statements: H360 - May damage fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure if swallowed

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**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

P264 - Wash hands thoroughly after handling

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

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

P314 - Get medical attention/advice if you feel unwell

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.

Long Term: May cause effects on gastrointestinal system, liver, pancreas. Related compounds in this class

have known reproductive effects.

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

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Ingredient	CAS Number	EU	<b>EU Classification</b>	GHS	%
		EINECS/ELINCS		Classification	
		List			
Toceranib phosphate	874819-74-6	Not Listed	Repr.Cat.2;R61	Repr. 1B (H360)	12.5
			T;R48/25	STOT RE 1 (H372)	
Colloidal silicon dioxide	7631-86-9	231-545-4	Not Listed	Not Listed	*
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	Not Listed	*

Ingredient	CAS Number	EU	EU Classification	GHS	%
_		EINECS/ELINCS		Classification	
		List			
Lactose Monohydrate	64044-51-5	Not Listed	Not Listed	Not Listed	*
Crospovidone	9003-39-8	Not Listed	Not Listed	Not Listed	*
Opadry blue	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Opadry Red	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*
Opadry orange	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*

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Additional Information: \* Proprietary

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

#### 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

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 spilled material by a method that Collecting: controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

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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**

If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Releases to the environment should be avoided. Use appropriate personal protective equipment.

#### 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.

#### Toceranib phosphate

**Zoetis OEL TWA 8-hr** 10 μg/m<sup>3</sup>

Colloidal silicon dioxide

Australia TWA  $2 \text{ mg/m}^3$ Austria OEL - MAKs 4 mg/m<sup>3</sup>  $0.3 \text{ mg/m}^{3}$ 0.1 mg/m<sup>3</sup> Czech Republic OEL - TWA 4.0 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> Estonia OEL - TWA 5 mg/m<sup>3</sup> Finland OEL - TWA 4 mg/m<sup>3</sup> Germany - TRGS 900 - TWAs 4 mg/m<sup>3</sup> Germany (DFG) - MAK Ireland OEL - TWAs 6 mg/m<sup>3</sup> 2.4 mg/m<sup>3</sup> Latvia OEL - TWA  $1 \text{ mg/m}^3$ OSHA - Final PELs - Table Z-3 Mineral D: 20 mppcf

Slovakia OEL - TWA 4.0 mg/m $^3$  Switzerland OEL -TWAs 4 mg/m $^3$  0.3 mg/m $^3$ 

Microcrystalline cellulose

**ACGIH Threshold Limit Value (TWA)** 10 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> **Australia TWA Belgium OEL - TWA** 10 mg/m<sup>3</sup> Estonia OEL - TWA 10 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> France OEL - TWA **Ireland OEL - TWAs** 10 mg/m<sup>3</sup> 4 mg/m<sup>3</sup> Latvia OEL - TWA  $2 \text{ mg/m}^3$ **Vietnam OEL - TWAs** 10 mg/m<sup>3</sup>

OSHA - Final PELS - TWAs: 5 mg/m³
Portugal OEL - TWA 10 mg/m³

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Romania OEL - TWA 10 mg/m³
Spain OEL - TWA 10 mg/m³
Switzerland OEL -TWAs 3 mg/m³

Magnesium stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³
Lithuania OEL - TWA 5 mg/m³
Sweden OEL - TWAs 5 mg/m³

**Exposure Controls** 

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

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

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

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

**Equipment:** 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:TabletsColor:Orange, Blue, RedOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
No data available
No data available.
No data available.
No data available.
No data available
No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)

No data available Toceranib phosphate

Predicted 7.4 Log D 0.03

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

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available
No data available
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.):

No data available
No data available

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## 10. STABILITY AND REACTIVITY

Reactivity: No data available

**Chemical Stability: Possibility of Hazardous Reactions** 

**Oxidizing Properties:** 

**Conditions to Avoid: Incompatible Materials:** 

**Hazardous Decomposition** 

**Products:** 

Stable under normal conditions of use.

No data available

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

No data available

### 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.

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

**Toceranib phosphate** 

Rat Oral Minimum Lethal Dose 2500 mg/kg

**Lactose Monohydrate** 

Rat Oral LD 50 29700 mg/kg

Microcrystalline cellulose

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

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m<sup>3</sup>

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

Toceranib phosphate

Eve Irritation Rabbit Minimal Skin Irritation Rabbit Non-irritating

Skin Sensitization - LLNA Mouse Negative

Microcrystalline cellulose

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

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

Toceranib phosphate

14 Day(s) Rat Oral10 mg/kg/day LOAEL Liver, Lymphatic system, Pancreas, Adrenal gland

8 Day(s) Dog Oral < 50 mg/kg/day NOAEL Gastrointestinal system, Pancreas

7 Day(s) Dog Oral 2.5 mg/kg/day LOAEL Gastrointestinal system

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

PZ01001

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# 11. TOXICOLOGICAL INFORMATION

Toceranib phosphate

In Vitro Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative In Vitro Chromosome Aberration Human Lymphocytes Negative

In Vivo Micronucleus Rat Negative

**Lactose Monohydrate** 

In Vitro Bacterial Mutagenicity (Ames) Negative

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

Crospovidone

IARC: Group 3 (Not Classifiable)

Colloidal silicon dioxide

IARC: Group 3 (Not Classifiable)

# 12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

No data available

Toxicity: No data available

Persistence and Degradability: No data available

**Bio-accumulative Potential:** 

Toceranib phosphate

Predicted 7.4 Log D 0.03

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

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

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

# 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture Caution - Substance not fully tested (VIIA)

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 MSDS contains all of the information required by the CPR.



Toceranib phosphate

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

**Lactose Monohydrate** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Not Listed

Present

obligations of Register:

EU EINECS/ELINCS List Not Listed

Crospovidone

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Colloidal silicon dioxide

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Not Listed
Present

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# 15. REGULATORY INFORMATION

Australia (AICS): Present EU EINECS/ELINCS List 231-545-4

**Opadry blue** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

**Opadry Red** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

**Opadry orange** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

Microcrystalline cellulose

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen initial date 12/18/09

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

**Dangerous Substances:** 

EU EINECS/ELINCS List 232-674-9

Magnesium stearate

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

### **16. OTHER INFORMATION**

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

H360 - May damage fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure if swallowed

Toxic to Reproduction: Category 2

T - Toxic

R61 - May cause harm to the unborn child.

R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.

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

raw material suppliers, or from the published literature.

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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 4 - First Aid Measures. Updated Section 5 - Fire Fighting Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 15 -

Regulatory Information. Updated Section 16 - Other 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**