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

**Product Identifier** 

Material Name: Maropitant Citrate Tablets

Cerenia **Trade Name: Chemical Family:** Mixture

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

Veterinary product used as Anti-emetic. Intended Use:

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: Emergency telephone number:** 

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

**Contact E-Mail:** VMIPSrecords@zoetis.com International CHEMTREC (24 hours): +1-703-527-3887

# 2. HAZARDS IDENTIFICATION

Appearance: Oval, convex peach tablets

Classification of the Substance or Mixture

**GHS - Classification** 

Serious Eye Damage/Eye Irritation: Category 1

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: Harmful

Irritant

Dangerous for the Environment

EU Symbol: Xn; N

EU Risk Phrases:

R41 - Risk of serious damage to eyes.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed. 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: H318 - Causes serious eye damage

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

( cardiovascular , kidneys , liver )

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements: 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 P273 - Avoid release to the environment

P314 - Get medical attention/advice if you feel unwell

P337 + P313 - If eye irritation persists: Get medical advice/attention P310 - Immediately call a POISON CENTRE or doctor/physician

P391 - Collect spillage

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



Other Hazards

**Short Term:** May cause eye irritation . May cause serious damage to eyes. Irritation may occur following

direct contact. Symptoms might include redness, swelling, discharge, blurred vision, pain or permanent eye damage. Dust may cause irritation to respiratory system if tablets are crushed

or broken.

**Long Term:** Based on findings in animal studies, this compound may cause rare but potentially serious

cardiac effects in human clinical use. These effects have not been observed from occupational exposures, however, those with preexisting cardiovascular illnesses may be at increased risk

from exposure.

**Australian Hazard Classification** 

(NOHSC):

Note:

Hazardous Substance. Non-Dangerous Goods.

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	EU Classification	GHS Classification	%
Maropitant citrate monohydrate	359875-09-5	Not Listed	N;R50/53 Xn;R48/22 Xi;R41	Eye Dam. 1 (H318) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	Not Listed	*

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Ingredient	CAS Number	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
FD&C Yellow No. 6; (Sunset yellow)	2783-94-0	220-491-7	Not Listed	Not Listed	*
Croscarmellose sodium	74811-65-7	Not Listed	Not Listed	Not Listed	*
Lactose	63-42-3	200-559-2	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 Individuals with cardiac conditions may be more susceptible to toxicity in cases of

**Aggravated by Exposure:** overexposure.

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE-FIGHTING MEASURES

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

Special Hazards Arising from the Substance or Mixture

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

**Products:** monoxide, carbon dioxide, and nitrogen oxides.

Fine particles (such as dust and mists) may fuel fires/explosions. Dust can form an explosive

mixture in air.

Advice for Fire-Fighters

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

used to fight fire.

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# 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 /

Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

**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**

Keep away from heat, sparks, flame and all other sources of ignition. When handling, use appropriate personal protective equipment (see Section 8). Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. Wash hands and any exposed skin after removal of PPE. 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. Keep container tightly closed when not in use.

Specific end use(s): Veterinary product for the treatment of nausea and vomiting (antiemetic)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control Parameters**

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

## Maropitant citrate monohydrate

**Zoetis OEL TWA 8-hr** 20 μg/m<sup>3</sup>

## Microcrystalline cellulose

**ACGIH Threshold Limit Value (TWA)** 10 mg/m<sup>3</sup> **Australia TWA** 10 mg/m<sup>3</sup> **Belgium OEL - TWA** 10 mg/m<sup>3</sup> **Estonia OEL - TWA** 10 mg/m<sup>3</sup> France OEL - TWA 10 mg/m<sup>3</sup> Ireland OEL - TWAs 10 mg/m<sup>3</sup> 4 mg/m<sup>3</sup> Latvia OEL - TWA  $2 \text{ mg/m}^3$ 10 ma/m<sup>3</sup> Vietnam OEL - TWAs 5 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 15 mg/m<sup>3</sup> Portugal OEL - TWA 10 mg/m<sup>3</sup> Romania OEL - TWA 10 mg/m<sup>3</sup>

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Spain OEL - TWA 10 mg/m<sup>3</sup> **Switzerland OEL -TWAs** 3 mg/m<sup>3</sup>

Magnesium stearate

**ACGIH Threshold Limit Value (TWA)** 10 mg/m<sup>3</sup> Lithuania OEL - TWA 5 mg/m<sup>3</sup> Sweden OEL - TWAs 5 mg/m<sup>3</sup>

**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 protective equipment (PPE). **Equipment:** 

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

processing operations.

Eves: 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.

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

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Tablet Color: Peach

Odor: No data available. **Odor Threshold:** No data available.

**Molecular Weight:** Molecular Formula: Mixture Mixture

No data available **Solvent Solubility:** Water Solubility: No data available No data available. :Ha Melting/Freezing Point (°C): No data available **Boiling Point (°C):** No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

Maropitant citrate monohydrate

Measured Log P 7.75

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

**Evaporation Rate (Gram/s):** No data available Vapor Pressure (kPa): No data available Vapor Density (q/ml): No data available Relative Density: No data available Viscosity: No data available

Flammablity:

Autoignition Temperature (Solid) (°C): No data available Flammability (Solids): No data available Flash Point (Liquid) (°C): No data available **Upper Explosive Limits (Liquid) (% by Vol.):** No data available Lower Explosive Limits (Liquid) (% by Vol.): No data available

Polymerization: Will not occur

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# 10. STABILITY AND REACTIVITY

Reactivity: No data available

**Chemical Stability:** 

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

Stable under normal conditions of use.

**Hazardous Decomposition** 

**Products:** 

## 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 hazards of various forms of the active ingredient. 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)

### Maropitant citrate monohydrate

Rat Dermal LDmin. > 2000 mg/kg

### FD&C Yellow No. 6; (Sunset yellow)

LD50 > 10,000 mg/kgMouse Oral LD50 > 6,000mg/kg

## Microcrystalline cellulose

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

#### Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat LC50  $> 2000 \text{ mg/m}^3$ Inhalation

## Maropitant methanesulfonate salt

LDmin. 1000 mg/kg Oral

**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)

## Maropitant citrate monohydrate

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Non-irritating

Skin Sensitization - GPMT Guinea Pig Negative

## Microcrystalline cellulose

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

**Irritation / Sensitization Comments:** May cause irreversible eye damage.

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# 11. TOXICOLOGICAL INFORMATION

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

Maropitant methanesulfonate salt

3 Month(s) Rat Oral 5 mg/kg/day NOAEL Liver

3 Month(s) Dog Oral 5 mg/kg/day NOAEL Cardiovascular system

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

Maropitant citrate monohydrate

Embryo / Fetal Development Rat 150 mg/kg/day NOEL Not teratogenic

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

Maropitant methanesulfonate salt

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vitro Human Lymphocytes Negative

In Vivo Micronucleus Mouse Bone Marrow Negative

In Vitro Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells Negative

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

FD&C Yellow No. 6; (Sunset yellow)

IARC: Group 3 (Not Classifiable)

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# 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties of the formulation have not been investigated. Releases to the

environment should be avoided. In the environment, the active ingredient in this formulation is

expected to degrade slowly and may be harmful to aquatic organisms.

Toxicity:

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

Maropitant citrate monohydrate

Mysidopsis bahia (Mysid Shrimp) **NPDES** LC50 48 Hours 0.68 mg/L

Cyprinodon variegatus (Sheepshead Minnow) **NPDES** LC50 Hours 0.68 mg/L

Red Algae 7 Days 0.23 mg/L **NPDES** IC50

Daphnia magna (Water Flea) EC50 1.25 Hours 0.60 mg/L

**Aquatic Toxicity Comments:** The above aquatic toxicity studies were conducted with CJ-11,972 (free base). The effects of

the two materials are predicted to be similar.

No data available Persistence and Degradability:

**Bio-accumulative Potential:** 

Maropitant citrate monohydrate

Measured Log P 7.75

Mobility in Soil: No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** Should not be released into the environment. 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** proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s (Maropitant citrate monohydrate)

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

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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 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.



Maropitant citrate monohydrate

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

FD&C Yellow No. 6; (Sunset yellow)

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

220-491-7

Croscarmellose sodium

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Microcrystalline cellulose

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Not Listed

Not Listed

Not Listed

Present

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

**Dangerous Substances:** 

EU EINECS/ELINCS List 232-674-9

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# 15. REGULATORY INFORMATION

### 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

Present

209-150-3

#### Lactose

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

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

Not Listed

Not Listed

Not Listed

Not Listed

Present

Present

EU EINECS/ELINCS List 200-559-2

# **16. OTHER INFORMATION**

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

Serious eye damage/eye irritation-Cat.1; H318 - Causes serious eye damage

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

Xn - Harmful

Xi - Irritant

N - Dangerous for the environment

R41 - Risk of serious damage to eyes.

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

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

**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 3 - Composition / Information on

Ingredients. Updated Section 4 - First Aid Measures. 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**