SAFETY DATA SHEET



1. Identification

Product identifier Cerenia Tablets

Other means of identification

Synonyms CERENIA * Cerenia® Tablets * Cerenia (maropitant citrate) Tablets * Cerenia® Tablets for Dogs *

Maropitant Citrate Tablets

Veterinary product used as Anti-emetic Recommended use

Recommended restrictions Not for human use Manufacturer/Importer/Supplier/Distributor information

Company Name (USA) Zoetis Inc.

10 Sylvan Way

Parsippany, New Jersey 07054 (USA)

Rocky Mountain Poison

and Drug Center

1-866-531-8896

Product Support/Technical

Services

1-888-963-8471

Emergency telephone

numbers

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

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

Zoetis Canada Inc. Company Name (CA)

> 16740 Trans-Canada Highway Kirkland, Quebec, H9H 4M7

Emergency telephone

number

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

productsupport@zoetis.com Contact E-Mail

1-800-461-0917 **Product Support**

All Safety Data Sheets are available via our Zoetis Canada website at

https://www.zoetis.ca/sds/sds.aspx

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 1

> Specific target organ toxicity following Category 2 (cardiovascular system, liver)

repeated exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. May cause damage to organs (cardiovascular system, liver) through

prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear eye

protection/face protection.

Get medical advice/attention if you feel unwell. IF IN EYES: Rinse cautiously with water for Response

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately

call a POISON CENTRE/doctor. Collect spillage.

Storage Store away from incompatible materials.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Supplemental information Drugs of this class have been associated with rare, but potentially serious cardiac events. These

effects have not been observed from occupational exposures, however, those with preexisting

cardiovascular illnesses may be at increased risk from exposure.

Other hazards None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	<u></u>
Microcrystalline cellulose		9004-34-6	50 - 60
Maropitant citrate monohydrat	е	359875-09-5	23.2
Magnesium stearate		557-04-0	< 3

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. For breathing difficulties, oxygen

may be necessary.

Skin contact Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention. Take

off contaminated clothing and wash before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Call a physician or poison control centre immediately. Do not induce vomiting without Ingestion

advice from poison control center. Never give anything by mouth to a victim who is unconscious or

is having convulsions.

Most important

symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects. Individuals with cardiac conditions may be more susceptible to toxicity in cases of overexposure.

Indication of immediate medical attention and special

treatment needed General information Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

For personal protection, see section 8 of the SDS. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Avoid dust formation. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Ensure adequate ventilation. Avoid dust formation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Ground/bond container and equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent release to the environment.

Small Spills: Wipe up with a damp cloth and place in container for disposal. Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Use with adequate ventilation. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid contact with eyes, skin, and clothing. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes. Avoid prolonged exposure. Wash hands thoroughly after handling. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. @ 15-30°C (59-86°F).. Keep away from heat, sparks and open flame.

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis

Components	Туре	Value	
Maropitant citrate monohydrate (CAS 359875-09-5)	TWA	20 μg/m³	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
Magnesium stearate (CAS 557-04-0)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Microcrystalline cellulose (CAS 9004-34-6)	TWA	10 mg/m3	
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Scl	nedule 1, Table 2)	
Components	Туре	Value	
Magnesium stearate (CAS	TWA	10 mg/m3	
557-04-0)			
557-04-0) Microcrystalline cellulose (CAS 9004-34-6)	TWA	10 mg/m3	
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Occupational Exposure Limit	· ·	Occupational Health and
Microcrystalline cellulose (CAS 9004-34-6)	Occupational Exposure Limit	· ·	Occupational Health and
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as ame	Occupational Exposure Limit	s for Chemical Substances, C	
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as ame Components Magnesium stearate (CAS	Occupational Exposure Limit nded) Type	s for Chemical Substances, C Value	Form
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as ame Components Magnesium stearate (CAS	Occupational Exposure Limit nded) Type	s for Chemical Substances, C Value 3 mg/m3	Form Respirable. Inhalable
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as amel Components Magnesium stearate (CAS 557-04-0) Microcrystalline cellulose	Occupational Exposure Limit nded) Type TWA	value 3 mg/m3 10 mg/m3	Form Respirable.
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as amel Components Magnesium stearate (CAS 557-04-0) Microcrystalline cellulose	Occupational Exposure Limit nded) Type TWA	Value 3 mg/m3 10 mg/m3 3 mg/m3 10 mg/m3	Form Respirable. Inhalable Respirable fraction.
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as amed Components Magnesium stearate (CAS 557-04-0) Microcrystalline cellulose (CAS 9004-34-6)	Occupational Exposure Limit nded) Type TWA	Value 3 mg/m3 10 mg/m3 3 mg/m3 10 mg/m3	Form Respirable. Inhalable Respirable fraction.
Microcrystalline cellulose (CAS 9004-34-6) Canada. British Columbia OELs. (Safety Regulation 296/97, as amed Components Magnesium stearate (CAS 557-04-0) Microcrystalline cellulose (CAS 9004-34-6) Canada. Manitoba OELs (Reg. 217	Occupational Exposure Limit nded) Type TWA TWA TWA 7/2006, The Workplace Safety	Value 3 mg/m3 10 mg/m3 3 mg/m3 40 mg/m3 And Health Act)	Form Respirable. Inhalable Respirable fraction. Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Form Components Value Type Microcrystalline cellulose TWA 10 mg/m3 (CAS 9004-34-6)

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Form Components Value Type TWA Respirable fraction. Magnesium stearate (CAS 3 mg/m3 557-04-0) Microcrystalline cellulose TWA 10 mg/m3 (CAS 9004-34-6)

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety) Form Components Value Type Microcrystalline cellulose TWA 10 mg/m3 Total dust. (CAS 9004-34-6)

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Value Form Components Type Magnesium stearate (CAS 15 minute 20 mg/m3 557-04-0) 8 hour 10 mg/m3 Microcrystalline cellulose 15 minute 20 mg/m3 Fiber. (CAS 9004-34-6) 8 hour 10 mg/m3 Fiber.

Biological limit values No biological exposure limits noted for the ingredient(s).

Not available.

Control banding approach

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Wear safety glasses or goggles if eye contact is possible. Chemical goggles are recommended. Eye/face protection

Skin protection

Wear protective gloves. Impervious gloves are recommended if skin contact with drug product is Hand protection

possible and for bulk processing operations.

Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable Other

coveralls, etc.) in both production and laboratory areas.

Respiratory protection No personal respiratory protective equipment normally required. In case of insufficient ventilation,

wear suitable respiratory equipment. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn.

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance tablet Solid. Physical state Solid. Form Colour Peach Not available. Odour

Not available. **Odour threshold** pН Not available.

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Explosive limit - lower (%) Explosive limit - upper

Not available. Not available.

(%)

Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water) Auto-ignition temperature

Decomposition temperature

Not available. Not available. Not available.

Other information

Viscosity

Explosive properties Not explosive. Oxidising properties Not oxidising.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

Conditions to avoid Contact with incompatible materials. Heat, flames and sparks. High temperatures. Sunlight.

Incompatible materials Strong oxidising agents. Fluorine.

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Prolonged skin contact may cause temporary irritation. Skin contact

Maropitant citrate monohydrate Species: Rabbit

Severity: Non-irritating

Microcrystalline cellulose Species: Rabbit

Severity: Non-irritating

Eye contact Causes serious eye damage.

Microcrystalline cellulose Species: Rabbit

Severity: Non-irritating

Maropitant citrate monohydrate Species: Rabbit

Severity: Severe

May cause discomfort if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity Not acutely toxic

Components Species Test Results

Magnesium stearate (CAS 557-04-0)

<u>Acute</u>

Inhalation

LC50 Rat > 2000 mg/m3

Oral

LD50 Rat > 2000 mg/kg

Maropitant citrate monohydrate (CAS 359875-09-5)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg

Oral

LDmin. Rat 1000 mg/kg (Maropitant methanesulfonate

salt)

Subchronic

Oral

NOAEL Dog 5 mg/kg/day, 3 months [Target organ(s):

Cardiovascular system (Maropitant

methanesulfonate salt)]

Rat 5 mg/kg/day, 3 months [Target organ(s):

Liver (Maropitant methanesulfonate salt)]

Microcrystalline cellulose (CAS 9004-34-6)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity

Maropitant citrate monohydrate Species: Rabbit

Severity: Non-irritating

Serious eye damage/eye Causes serious eye damage.

irritation

Eye contact

Microcrystalline cellulose Species: Rabbit

Severity: Non-irritating

Maropitant citrate monohydrate Species: Rabbit

Severity: Severe

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Magnesium stearate (CAS 557-04-0) Irritant Microcrystalline cellulose (CAS 9004-34-6) Irritant

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Skin Sensitisation

Maropitant citrate monohydrate GPMT

Species: Guinea Pig Severity: Negative

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

Maropitant citrate monohydrate Result: Negative (In vitro, in vivo - Maropitant

methanesulfonate salt)

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Magnesium stearate (CAS 557-04-0)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Magnesium stearate (CAS 557-04-0)

Not classifiable as a human carcinogen.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects. Based on available

data, the classification criteria are not met.

Developmental effects

Maropitant citrate monohydrate 150 mg/kg/day Embryo / Fetal Development, Not teratogenic

Result: NOEL Species: Rat

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (cardiovascular system, liver) through prolonged or

repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged

inhalation may be harmful.

Further information Drugs of this class have been associated with rare, but potentially serious cardiac

events. These effects have not been observed from occupational exposures, however, those with preexisting cadiovascular illnesses may be at increased risk from exposure.

12. Ecological information

EcotoxicityToxic to aquatic life with long lasting effects. Avoid release to the environment.

Components		Species	Test Results
Maropitant citrate mon	ohydrate (CAS 359	875-09-5)	
Aquatic			
	IC50	Red Algae	0.23 mg/l, 7 days
	NOEC	Red Algae	0.082 mg/l, 7 days
Crustacea	EC50	Daphnia magna (Water Flea)	0.6 mg/l, 1.25 hours
	LC50	Mysidopsis bahia (Mysid Shrimp)	0.68 mg/l, 48 hours

NOEC Daphnia magna (Water Flea) 0.31 mg/l, 1.25 hours

Mysidopsis bahia (Mysid Shrimp) 0.302 mg/l, 48 hours

Fish LC50 Cyprinodon variegatus (Sheepshead 0.68 mg/l, 48 hours

Minnow)

NOEC Cyprinodon variegatus (Sheepshead 0.302 mg/l, 48 hours

Minnow)

Persistence and degradability No data is available on the degradability of this product. In the environment, the active ingredient in

this formulation is expected to degrade slowly.

Bioaccumulative potential See below

Partition coefficient n-octanol / water (log Kow)

Maropitant citrate monohydrate 5.12, (+/- 0.01)

Mobility in soil No data available.

Adsorption

Soil/Sediment Sorption - Log Koc

Maropitant citrate monohydrate 4.16, (estimated)

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsAvoid release to the environment. 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. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

None known.

Waste from residues / unused

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

products

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

UN number UN3077

UN proper shipping name

Transport hazard class(es)

Environmentally Hazardous Substance, Solid, n.o.s (Maropitant citrate monohydrate)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes

Special precautions for user Not available.

IMDG

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Maropitant citrate

monohydrate), MARINE POLLUTANT (Maropitant citrate monohydrate)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

Environmental hazards

Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Not available.
sport in bulk according to Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and

Annex II of MARPOL 73 the IBC Code

IATA; IMDG



Material name: Cerenia Tablets SDS CANADA

Version #: 02 Revision date: 20-April-2022 Issue date: 21-April-2017

Marine pollutant



General information

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

15. Regulatory information

Canadian regulations

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

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date21-April-2017Revision date20-April-2022

Version No. 02

Disclaimer 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. The information in the sheet was written based on the best knowledge and experience currently

available.

Revision information Identification: Recommended restrictions

Composition / Information on Ingredients: Ingredients

Composition/information on ingredients: Component information

Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities

Toxicological information: Acute toxicity Toxicological information: Reproductivity Toxicological information: Ingestion

Ecological information: Bioaccumulative potential Disposal considerations: Disposal instructions

GHS: Classification