

#### Mercodia Canine Insulin ELISA

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier Mercodia Canine Insulin ELISA 10-1203-01

> A)20-5272 Coated plate

B)20-5313 Enzyme Conjugate 11X 1.3 mL <sup>C)</sup>20-5305 Enzyme Conjugate Buffer 13 mL

Calibrator 0 5 mL D)20-5325 E)20-5315-20-5319 Calibrator 1- 5 1 mL Substrate TMB 22 mL F)20-2629  $^{G)}20-6746$ Wash Buffer 21X 50 mL H)20-2693 Stop Solution 7 mL

1.2 Relevant identified use of the substance or mixture and uses advised against

The test provides a method for the quantitative determination

of insulin in canine serum or plasma.

1.3 Details of the supplier of the safety data sheet

Mercodia AB

Sylveniusgatan 8A

754 50 UPPSALA, SWEDEN

tel: +46 (0) 18-57 00 70 fax: +46 (0) 18-57 00 80 e-mail: info@mercodia.se tel: +46 (0) 18-57 00 70

# **SECTION 2: Hazards identification**

1.4 Emergency telephone:

2.1a Classification of the substance or mixture (Sulphuric acid)

Included in solution H)

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

H315 SKIN IRRITATION - Category 2

H318 SERIOUS EYE DAMAGE - Category 1

2.2a Label elements (Sulphuric acid)



Signal word: Danger

H318 - Causes serious eye damage. Hazard statements:

H315 - Causes skin irritation.

**Precautionary statements** 

Prevention: P280 - Wear protective gloves. Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

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Sid 1 (9) Revised, replaces MSDS: 2015-05-19



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Response: P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty

of soap and water. Take off contaminated clothing and wash

it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage: Not applicable Disposal: Not applicable

#### 2.1b Classification of the substance or mixture (Kathon CG)

Included in solutions (C), (D) (E) and (G)

H317 skin sensitization - Category 1

See Section 16 for the full text of the H statements declared

above.

See Section 11 for more detailed information on health effects

and symptoms.

# 2.2b Label elements (Kathon CG)



Signal word: Warning

Hazard statement: H317 – May cause an allergic skin reaction

**Precautionary statements** 

Prevention P280 – Wear protective gloves.

P261 - Avoid breathing vapour.

P272 - Contaminated work clothing should not be allowed

out of the workplace.

Response P302 + P352 - if on skin: Wash with plenty of soap and

water.

P333 + P313 - If skin irritation or rash occurs: Get medical

attention.

Storage Not applicable.

Disposal P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

Hazardous ingredients 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]

and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Supplemental label elements Not applicable

**Special packaging requirements** 

Tactile warning of danger Not applicable

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#### 2.3 Other hazards

None known

#### **SECTION 3: Composition / information on ingredients**

#### 3.2 Mixtures

**Hazardous ingredients:** 

Sulphuric acid<sup>1)</sup> Conc % Classification<sup>2)</sup>

Index-No: 016-020-00-8 1-5 Skin Corrosion 1A; H314

CAS-No: 7664-93-9 EC-No: 231-639-5

Kathon CG<sup>3)</sup> Conc % Classification<sup>2)</sup>

Index-No: 613-167-00-5 0.15<sup>3)</sup> Acute Toxicity 3; H331

CAS-No: 55965-84-9 Acute Toxicity 3; H311 EC-No: - Acute Toxicity 3; H301

Skin Corrosion 1B; H314 Skin Sensitisation 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

- 1) Included in solution H).
- 2) Classification according to (EC)1272/2008. See description of Hazard statements and precautionary statements in section 16.
- 3) Included in solutions  $^{C}$ ,  $^{D}$ ,  $^{E}$  and  $^{G}$ .

Kathon CG is a mixture of substances where two of the components, 5-chloro-2-methyl-4-isothiazolin-3-one (EG-nr 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG-nr 220-239-6), in a mixture with the proportion 3:1 has a CAS No 55965-84-9. The content of this mixture in the Kathon CG is 1.5 w-% which gives the content of 0.0023 w-% of the dangerous mixture in the product.

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**Inhalation**: Breathe fresh air and rest. If breathing is difficult, give

oxygen.

**Skin contact**: Remove contaminated clothing. Wash the affected area with

soap and water.

**Eye contact**: Rinse immediately with copious amount of water for at least

15 minutes with the eyelid held wide open. Consult a doctor if

symptoms persist.

**Ingestion**: Rinse mouth and throat with water. Consult a doctor if

symptoms persist. Never give anything to drink / eat to an

unconscious person.

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#### 4.2a Most important symptoms and effects, both acute and delayed

Potential acute health effects (Sulphuric acid)

Eye contact: Causes serious eye damage

Inhalation: No known significant effects or critical hazards

Skin contact: Causes skin irritation

Ingestion: No known significant effects or critical hazards

# 4.2b Most important symptoms and effects, both acute and delayed

Potential acute health effects (Kathon CG)

Eye contact: No known significant effects or critical hazards Inhalation: No known significant effects or critical hazards

Skin contact: May cause an allergic skin reaction

Ingestion: No known significant effects or critical hazards

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

# **SECTION 5: Fire-fighting measures**

#### **5.1** Extinguishing media

Water, carbon dioxide, powder, foam.

#### 5.2 Special hazards arising from the substance or mixture

Decomposition products may include the following materials:

carbon dioxide, carbon monoxide and sulphur oxide

**5.3** Advice for firefighters

No action shall be taken involving any personal risk or

without suitable training.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

See "Precautions for safe handling", section 7.1 and

"Exposure controls" section 8.2.

#### **6.2** Environmental precautions

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

## 6.3 Methods and material for containment and cleaning up

Clean up with absorbent paper and dispose of in a sealed

container.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal

protective equipment.

For current waste regulations, see section 13.

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section

8).

Ensure good ventilation. Direct physical contact with all

components in this product should be avoided.

#### 7.2 Conditions for safe storage, including any incompabilities

Keep container tightly closed and at 2-8°C. Keep from

freezing. F)Protect from light.

7.3 Specific end use(s)

Industrial applications. Professional applications.

#### **SECTION 8: Exposure control/personal protection**

#### 8.1 Control parameters

Occupational exposure Limits exists for the following substances:

Substance Limit value – Eight hours Limit value – Short term (Unit) ppm mg/m³ ppm mg/m³

H)Sulphuric acid - 0.05 - 1\* - 0.1 - 3\*

#### 8.2 Exposure controls

Ensure good ventilation. Avoid, if possible, direct contact

with the product. An emergency shower and/or an eye bath

should be available in the workplace.

**Engineering controls:** Not applicable for the mixtures.

**Eye/face protection:** Use chemical safety goggles where splashing is possible.

Skin protection

**Hand protection:** Chemical resistant gloves (butyl rubber, PE or PVC) may be

used if risk of direct contact may occur.

**Respiratory protection:** Based on the hazard and potential for exposure, select a

respirator that meets the appropriate standard or certification.

**Thermal hazards:** None known

**Environmental exposure** 

**controls:** Emissions from ventilation or work process equipment should

be checked to ensure they comply with the requirements of

environmental protection legislation

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance:** B), C), D), E), F), G), and H) Liquid, A) Solid

**Colour:** B), F), G) and H)Colourless C)Blue and D), E)Yellow.

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<sup>\*</sup>see current national legislation for details.



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Odour: Odourless
Odour threshold: Not available.

**pH:**  $^{B),(C),(D),(E) \text{ and } G)}$  appr. 7  $^{F)}$ appr. 4 and  $^{H)}$ appr. 0.5

**Melting point/Freezing point:** Approximately 0 °C

Initial boiling point and

**boiling range:** Approximately 100 °C

Flash Point (°C)

Evaporation rate:

Flammability (solid, gas):

Not available.

Not available.

Upper/lower flammability

or explosive limits:Not available.Vapour pressure:Not available.Vapour density:Not available.

Relative Density (g/cm<sup>3</sup>)

B), C), D), E), F), G) and H) Approximately 1

**Solubility (ies):** Soluble in water

**Partition coefficient;** 

N-octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Explosive properties:
Not available.
Not available.
Not available.
Not available.
Not available.

9.2 Other information

No additional information.

#### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No specific test data related to reactivity available for this

product or its ingredients

**10.2** Chemical stability

10.3 Possibility of hazardous reactions

Stable under normal conditions.

Under normal conditions of storage and use, hazardous

reactions will not occur

**10.4 Conditions to avoid** No specific data

10.5a Incompatible materials

(Sulphuric acid) Attacks many metals producing extremely flammable

hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis

10.5b Incompatible materials

**(Kathon CG)** May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition

**products** Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

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#### **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute toxicity Sulphuric acid, LD50 Oral, Rat, Dose 2140 mg/kg

5-chloro-2-methyl-4-isothiazolin-3-one (EG-nr 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG-nr 220-239-6), in a mixture with the proportion 3:1, LD50 Oral, Rat, Dose 53

mg/kg

Irritation Sulphuric acid, Eyes – Severe irritant, Rabbit, Exposure 250

Micrograms

Sulphuric acid, Eyes – Severe irritant, Rabbit, 0.5 minutes 5

milligrams.

5-chloro-2-methyl-4-isothiazolin-3-one (EG-nr 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG-nr 220-239-6), in a

mixture with the proportion 3:1. Not available.

**Sensitization** Sulphuric acid, Not available.

5-chloro-2-methyl-4-isothiazolin-3-one (EG-nr 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG-nr 220-239-6), in a mixture with the proportion 3:1, Possible risk for allergic

reaction may occur.

Repeated dose toxicity
Carcinogenicity
Not available.
Not available.
Not available.
Not available.
Not available.
Sulphuric acid

Eye contact Causes serious eye damage.

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

Ingestion No known significant effects or critical hazards.

Potential acute health effects 5-chloro-2-methyl-4-isothiazolin-3-one (EG-nr 247-500-7)

and 2-methyl-2H-isothiazol-3-one (EG-nr 220-239-6), in a

mixture with the proportion 3:1.

Eye contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards.

Skin contact May cause an allergic skin reaction.

Ingestion No known significant effects or critical hazards.

#### **SECTION 12: Ecological information**

## 12.1 Toxicity

<sup>H)</sup>Sulphuric acid 96%:

LC<sub>50</sub> (fish, 96h) 42 mg/L (mosquito fish)

 $EC_{50}$  (daphnia, 48h) >29 mg/L

#### 12.2 Persistence and degradability

Not available.

H) is being proteolysed to H<sup>+</sup> and SO<sub>4</sub><sup>2-</sup>.

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#### 12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product:** Discarded product (incl. Contaminated packaging) and related

waste is not hazardous waste acc. to current waste legislation. For disposal contact approved waste Management Company. Requirements for certain permission exists – see current waste

legislation.

Propose EWC-code: 18 01 07 Wastes from natural care, diagnosis, treatment or prevention of disease in humans, about sole of the or those months and in 18 01 06

chemicals other than those mentioned in 18 01 06.

Note! In used kit there might be a plastic plate with rests of blood which can be allotted an EWC-code 18 01 03 Wastes from natural care, diagnosis, treatment on prevention of disease in humans, waste whose collection and disposal is subject to special requirements in view of prevention of

infection.

Packaging:

**Methods of disposal**: The generation of waste should be avoided or minimized

wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when

recycling is not feasible.

**Special precautions:** This material and its container must be disposed of in a safe

way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers.

#### **SECTION 14: Transport information**

**Regulatory information** 

ADR/RID / IMDG / IATA N

Not regulated

14.6 Special precautions

for user Transport within user's premises: always transport in closed

containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

Not available.

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#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization Annex XIV

None of the components are listed

**Substances of very high concerns** 

None of the components are listed

**National inventory:** United States: All components are listed or exempted.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety

Assessments might still be required.

#### **SECTION 16: Other information**

Revised in section (-s): Version 2017-06-28 is rewritten with the addition of

pictograms for Kathon CG and Sulphuric acid and all

consequences thereof.

Key literature references and sources for data:

(EC) 1272/2008, Supplier's SDS

List of hazard statements and precautionary statements:

H331 = Toxic if inhaled.

H311 = Toxic in contact with skin.

H301 = Toxic if swallowed.

H314 = Causes severe skin burns and eye damage.

H317 = May cause an allergic skin reaction.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Skin Corr. 1A, H314 = SKIN CORROSION/IRRITATION - Category 1A

The above information is believed to be correct and may not be all conclusive; however, it should only be used as a guide. Mercodia AB or Mercodia Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

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