

# SAFETY DATA SHEET

## Mercodia Feline Insulin ELISA

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

<b>1.1 Product Identifier</b>	Mercodia Feline Insulin ELISA 10-1233-01
- <sup>A)</sup> 20-6644	Coated plate
- <sup>B)</sup> 20-6632	Enzyme Conjugate 11X 2.5 mL
- <sup>C)</sup> 20-6634	Enzyme Conjugate Buffer 25 mL
- <sup>D)</sup> 20-6642	Calibrator 0 5 mL
- <sup>E)</sup> 20-6626–20-6630	Calibrator 1- 5
- <sup>F)</sup> 20-2629	Substrate TMB 22 mL
- <sup>G)</sup> 20-6746	Wash Buffer 21X 50 mL
- <sup>H)</sup> 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 determination of insulin in feline 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

**1.4 Emergency telephone** tel: +46 (0) 18-57 00 70

### SECTION 2: Hazards identification

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

Included in solution <sup>H)</sup>  
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  
Hazard statements: H318 - Causes serious eye damage.  
H315 - Causes skin irritation.

#### Precautionary statements

Prevention: P280 - Wear protective gloves. Wear eye or face protection.  
P264 - Wash hands thoroughly after handling.  
Response: P302 + P352 + P362+P364 - IF ON SKIN: Wash with

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	<p>plenty of soap and water. Take off contaminated clothing and wash it before reuse.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>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.</p>
Storage:	Not applicable
Disposal:	Not applicable
<b>2.1b Classification of the substance or mixture (Kathon CG)</b>	
	<p>Included in solutions <sup>C), D) E) and G)</sup></p> <p>H317 skin sensitization - Category 1</p> <p>See Section 16 for the full text of the H statements declared above.</p> <p>See Section 11 for more detailed information on health effects and symptoms.</p>
<b>2.2b Label elements (Kathon CG)</b>	
	
Signal word:	Warning
Hazard statement:	H317 – May cause an allergic skin reaction
<b>Precautionary statements</b>	
Prevention	<p>P280 – Wear protective gloves.</p> <p>P261 - Avoid breathing vapour.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p>
Response	<p>P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.</p> <p>P333 + P313 - If skin irritation or rash occurs: Get medical attention.</p>
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
<b>Special packaging requirements</b>	
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:

<b>Sulphuric acid<sup>1)</sup></b>	<b>Conc %</b>	<b>Classification<sup>2)</sup></b>
Index-No: 016-020-00-8 CAS-No: 7664-93-9 EC-No: 231-639-5	1-5	Skin Corrosion 1A; H314

<b>Kathon CG<sup>3)</sup></b>	<b>Conc %</b>	<b>Classification<sup>2)</sup></b>
Index-No: 613-167-00-5 CAS-No: 55965-84-9 EC-No: -	0.15 <sup>3)</sup>	Acute Toxicity 3; H331 Acute Toxicity 3; H311 Acute Toxicity 3; H301 Skin Corrosion 1B; H314 Skin Sensitisation 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

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

<b>Inhalation:</b>	Breathe fresh air and rest. If breathing is difficult, give oxygen.
<b>Skin contact:</b>	Remove contaminated clothing. Wash the affected area with soap and water.
<b>Eye contact:</b>	Rinse immediately with copious amount of water for at least 15 minutes with the eyelid held wide open. Consult a doctor if symptoms persist.
<b>Ingestion:</b>	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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<b>4.2a Most important symptoms and effects, both acute and delayed</b>	
<b>Potential acute health effects (Sulphuric acid)</b>	
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
<b>4.2b Most important symptoms and effects, both acute and delayed</b>	
<b>Potential acute health effects (Kathon CG)</b>	
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
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
<b>SECTION 5: Fire-fighting measures</b>	
<b>5.1 Extinguishing media</b>	
	Water, carbon dioxide, powder, foam.
<b>5.2 Special hazards arising from the substance or mixture</b>	
	Decomposition products may include the following materials: carbon dioxide, carbon monoxide and sulphur oxide
<b>5.3 Advice for firefighters</b>	
	No action shall be taken involving any personal risk or without suitable training.
<b>SECTION 6: Accidental release measures</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
	See "Precautions for safe handling", section 7.1 and "Exposure controls" section 8.2.
<b>6.2 Environmental precautions</b>	
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
<b>6.3 Methods and material for containment and cleaning up</b>	
	Clean up with absorbent paper and dispose of in a sealed container.
<b>6.4 Reference to other sections</b>	
	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 incompatibilities**

Keep container tightly closed and at 2-8°C. Keep from freezing. <sup>F)</sup>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 (Unit)	Limit value – Eight hours		Limit value – Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<sup>H)</sup> Sulphuric acid	-	0,05 – 1*	-	0,1 – 3*

\*see current national legislation for details.

**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

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#### SECTION 9: Physical and chemical properties

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

<b>Appearance:</b>	B), C), D), F), G), and H) Liquid, A) and E) Solid
<b>Colour:</b>	B), F), G) and H) Colourless C) Blue and D), E) Yellow.
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not available.
<b>pH:</b>	B), C), D), E) and G) appr. 7 F) appr. 4 and H) appr. 0.5
<b>Melting point/Freezing point:</b>	Approximately 0 °C
<b>Initial boiling point and boiling range:</b>	Approximately 100 °C
<b>Flash Point (°C)</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	Not available.
<b>Upper/lower flammability or explosive limits:</b>	Not available.
<b>Vapour pressure:</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Relative Density (g/cm<sup>3</sup>)</b>	B), C), D), E), F), G) and H) Approximately 1
<b>Solubility (ies):</b>	Soluble in water
<b>Partition coefficient; N-octanol/water:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Explosive properties:</b>	Not available.
<b>Oxidising properties:</b>	Not available.

##### 9.2 Other information

No additional information.

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<b>SECTION 10: Stability and reactivity</b>	
<b>10.1 Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur
<b>10.4 Conditions to avoid</b>	No specific data
<b>10.5a Incompatible materials (Sulphuric acid)</b>	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis
<b>10.5b Incompatible materials (Kathon CG)</b>	May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>SECTION 11: Toxicological information</b>	
<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity</b>	Sulphuric acid, LD50 Oral, Rat, Dose 2140 mg/kg
<b>Irritation</b>	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 Sulphuric acid, Eyes – Severe irritant, Rabbit, Exposure 250 Micrograms Sulphuric acid, Eyes – Severe irritant, Rabbit, 0.5 minutes 5 milligrams.
<b>Sensitization</b>	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. 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.
<b>Repeated dose toxicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>Mutagenicity</b>	Not available.
<b>Toxicity for reproduction</b>	Not available.
<b>Potential acute health effects</b>	<b>Sulphuric acid</b>
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.





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**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 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.

**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.

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**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.