SAFETY DATA SHEET
Mercodia Ultrasensitive C-peptide ELISA

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

1.1 Product Identifier
Mercodia Ultrasensitive C-peptide ELISA 10-1141-01
- A) 20-3422 Coated plate
- B) 20-7100 Enzyme Conjugate 21X 1.2 mL
- C) 20-7098 Enzyme Conjugate Buffer 24 mL
- D) 20-6636 Calibrator 0 5 mL
- E) 20-3514-20-3518 Calibrator 1 - 5
- F) 20-2629 Substrate TMB 22 mL
- G) 20-6746 Wash Buffer 21X 50 mL
- H) 20-2693 Stop Solution 7 mL
- I) 20-6640 Assay Buffer 6 mL

1.2 Relevant identified use of the substance or mixture and uses advised against
The test provides a method for determination of human C-peptide in serum, plasma or urine.

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 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
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 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), G) and I)
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
Reaction mass of: 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**
Index-No: 016-020-00-8
CAS-No: 7664-93-9
EC-No: 231-639-5
Conc %: 1-5
Classification: Skin Corrosion 1A; H314

**Kathon CG**
Index-No: 613-167-00-5
CAS-No: 55965-84-9
EC-No: -
Conc %: 0.15
Classification: Acute Toxicity 3; H331

1) Included in solution[^1].
2) Classification according to (EC)1272/2008. See description of Hazard statements and precautionary statements in section 16.
3) Included in solutions[^2][^3][^4][^5][^6].

Kathon CG is a mixture of substances where two of the components, 5-chloro-2-methyl-2H-isothiazol-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 incompatibilities
Keep container tightly closed and at 2-8°C. Keep from freezing. 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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit value – Eight hours</th>
<th>Limit value – Short term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>H₂Sulphuric acid</td>
<td>0,05 – 1*</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong>:</td>
<td>Liquid, A) and E) Solid, B), C), D), F), G), H) and I) Liquid, A) and E) Solid</td>
</tr>
<tr>
<td><strong>Colour</strong>:</td>
<td>Colourless, B) Red, C) Blue and D), E) Yellow.</td>
</tr>
<tr>
<td><strong>Odour</strong>:</td>
<td>Odourless</td>
</tr>
<tr>
<td><strong>Odour threshold</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong>:</td>
<td>B), C), D), E), G) and I) appr. 7 F) appr. 4 and H) appr. 0.5</td>
</tr>
<tr>
<td><strong>Melting point/Freezing point</strong>:</td>
<td>Approximately 0 °C</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong>:</td>
<td>Approximately 100 °C</td>
</tr>
<tr>
<td><strong>Flash Point (°C)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative Density (g/cm³)</strong>:</td>
<td>B), C), D), E), F), G), H) and I) Approximately 1</td>
</tr>
<tr>
<td><strong>Solubility (ies)</strong></td>
<td>Soluble in water</td>
</tr>
<tr>
<td><strong>Partition coefficient;</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>N-octanol/water</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Explosive properties</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong>:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

No additional information.
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#### SECTION 10: Stability and reactivity

<table>
<thead>
<tr>
<th>10.1 Reactivity</th>
<th>No specific test data related to reactivity available for this product or its ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2 Chemical stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>10.3 Possibility of hazardous reactions</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur</td>
</tr>
<tr>
<td>10.4 Conditions to avoid</td>
<td>No specific data</td>
</tr>
<tr>
<td>10.5a Incompatible materials</td>
<td>Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis</td>
</tr>
<tr>
<td>10.5b Incompatible materials</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>10.6 Hazardous decomposition products</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

#### SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>11.1 Information on toxicological effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity</strong></td>
</tr>
<tr>
<td><strong>Irritation</strong></td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
</tr>
<tr>
<td><strong>Repeated dose toxicity</strong></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
</tr>
<tr>
<td><strong>Toxicity for reproduction</strong></td>
</tr>
<tr>
<td><strong>Potential acute health effects</strong></td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Potential acute health effects</th>
<th>5-chloro-2-methyl-2H-isothiazol-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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### SECTION 12: Ecological information

**12.1 Toxicity**

\[ \text{Sulphuric acid } 96\%: \]

- \( \text{LC}_{50} \) (fish, 96h) 42 mg/L (mosquito fish)
- \( \text{EC}_{50} \) (daphnia, 48h) >29 mg/L

**12.2 Persistence and degradability**

Not available.

\[^{10}\text{H} \] is being proteolysed to \( \text{H}^+ \) and \( \text{SO}_4^{2-} \).

**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, 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.
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Special precautions:
- Incineration or landfill should only be considered when recycling is not feasible.
- 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
- 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:
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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.