SAFETY DATA SHEET
Mercodia AKURIO Multiplex Islet Hormones

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

1.1 Product Identifier

Mercodia AKURIO Multiplex Islet Hormones 10-1282-01
- A) 20-7415 Spotted Array
- B) 20-7396 Cal 0 5 mL
- C) 20-7403, 20-7404, 20-7405, 20-7406, 20-7407, 20-7408 Cal 1-6 1 mL
- D) 20-7410 Assay Buffer 24 mL
- E) 20-7412 Detection Mix 12 mL
- F) 20-7414 Streptavidin-HRP 6 mL
- G) 20-7416 Multiplex Substrate A 3 mL
- H) 20-7417 Multiplex Substrate B 3 mL
- I) 20-6746 Wash Buffer 21X 50 mL

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

Measurement of the human pancreatic islet hormones glucagon, insulin, c-peptide and proinsulin in plasma and cellculture medium.

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

2.1 Classification of the substance or mixture

Included in solutions B), C), D) E) 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.

2.2 Label elements

Signal word: Warning
Hazard statement: H317 – May cause an allergic skin reaction
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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
2.3 Other hazards
None known

SECTION 3: Composition / information on ingredients

3.2 Mixtures
Hazardous ingredients:

Kathon CG
Index-No: 613-167-00-5
CAS-No: 55965-84-9
EC-No: -

Conc % Classification

0.15%\(^1\)
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 solutions B), C), D), E) and b). The listing of the classification of Kathon is attributed to the percentage of the mixture of 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, CAS No 55965-84-9.

2) Classification according to (EC)1272/2008. See description of Hazard statements and precautionary statements in section 16.
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.

4.2 Most important symptoms and effects, both acute and delayed
Potential acute health effects
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 and carbon monoxide

5.3 Advice for firefighters
Not 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 spilt material and runoff and contact with soil, waterways, drains and sewers.
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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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
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.

7.3 Specific end use(s)
Industrial applications, Professional applications.

SECTION 8: Exposure control/personal protection

8.1 Control parameters
The mixture contains no substances with occupational exposure limits.

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 mixture.
Eye/face protection: Use chemical safety goggles where splashing is possible.
Skin protection: No specific precautions necessary.
Hand protection: Chemical resistant gloves (butyl rubber, PE or PVC) may be used if risk of direct contact may occur.
Respiratory protection: No specific precautions necessary.
Thermal hazards: None known
Environmental exposure controls: None known.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: Liquid, Solid
Colour: Colourless, Red, Blue and Yellow.
Odour: Odourless
Odour threshold: Not applicable for the mixture
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pH: B) and C) appr. 3, D), E) and I) appr. 7, F) appr. 5, H) appr. 9.5, N) No available data

Melting point/Freezing point: Approximately 0 °C
Initial boiling point and boiling range: Approximately 100 °C
Flash Point (°C): Not available
Evaporation rate: Not available
Flammability (solid, gas): Not available

Upper/lower flammability or explosive limits: Not available
Vapour pressure: Not available
Vapour density: Not available
Relative Density (g/cm³): Appr. 1.
Solubility (ies): Soluble in water
Partition coefficient:
N-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Explosive properties: Not available
Oxidising properties: 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
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
No specific data

10.5 Incompatible materials
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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
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Acute toxicity
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). LD50 Oral, Rat, 53 mg/kg.

Irritation
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
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
Not available.

Carcinogenicity
Not available.

Mutagenicity
Not available.

Toxicity for reproduction
Not available.

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
Data not available for the mixture. Is judged to be of low toxicity to aquatic organism.

12.2 Persistence and degradability
Data not available for the mixture. The product contains mainly water. For the inorganic substances, existing in very small amounts, there are no criteria for biodegradability.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Not available.

12.5 Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects
No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Discarded product (incl. Contaminated packaging) and related waste is not hazardous waste acc. to current waste
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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.

Emptied packaging: Glass bottles exclusive of lids and fibreboard boxes may be sent to material recycling – see “Emptying instruction” below.

Emptying instruction: Deliver empty glass bottles completely free of drip to glass recycling while fibreboard boxes can be delivered to relevant material recycling.

### SECTION 14: Transport information

| 14.1 UN number               | Not applicable for the mixture |
| 14.2 UN proper shipping name | Not applicable for the mixture |
| 14.3 Transport hazard        | Not applicable for the mixture |
| 14.4 Packing group           | Not applicable for the mixture |
| 14.5 Environmental hazards   | Not applicable for the mixture |
| 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 MARPOL73/78 and the IBC code

### 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.
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Substances of very high concern
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): 2017-06-21 is rewritten with the right name of a component in Kathon, namely 5-chloro-2-methyl-4-isothiazolin-3-one.

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.

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.