

Mercodia Insulin ELISA

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

1.1 Product Identifier

Mercodia Insulin ELISA 10-1113-01/10-1113-10

- A)20-2622 Coated plate

- B)20-2625/20-2631 Enzyme Conjugate 11X 1.2/12 mL - C)20-2627/20-2630 Enzyme Conjugate Buffer 12/120 mL

- D)20-2615 Calibrator 0 5 mL - E)20-2616-20-2620 Calibrator 1- 5 1 mL

F)20-2629/20-3136 Substrate TMB 22/220 mL
G)20-6746/20-3194 Wash Buffer 21X 50/400 mL

- H)20-2693/20-2694 Stop Solution 7/70 mL

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

The test provides a method for determination of human insulin in 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**e-mail: info@mercodia.se 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.

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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) 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 acid¹⁾ Conc % Classification²⁾

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

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

Kathon CG³ Conc % Classification²

Index-No: 613-167-00-5 0.15³⁾ 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 solution^{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

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^{*}see current national legislation for details.



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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.

Odour: Odourless
Odour threshold: Not available.

pH: B), C), D), E) 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) 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) B), C), D), E), F), G) and H) appr. 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.

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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

10.5a 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.

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
Mutagenicity
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.

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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

^{H)}Sulphuric acid 96%:

LC₅₀ (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⁺ and SO₄²-.

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.

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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.

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

> 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 14.6 Special precautions

Not regulated

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.

SECTION 16: Other information

Version 2017-06-26 is rewritten with the addition of Revised in section (-s):

pictograms for Kathon CG and Sulphuric acid and all

consequences thereof.

Key literature references and sources for data:

(EC) 1272/2008, Supplier's SDS

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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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