

SECTION 1: Identification of the substance/mixture and of the company/undertak	xture and of the company/undertaking
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1.1 Product Identifier		Insulin ELISA 10-1200-01
	- <sup>A)</sup> 20-5272	Coated plate
	- <sup>в)</sup> 20-5308	Enzyme Conjugate 11X 1.3 mL
	- <sup>C)</sup> 20-5305	Enzyme Conjugate Buffer 13 mL
	- <sup>D)</sup> 20-5325	Calibrator 0 5 mL
	- <sup>E)</sup> 20-5279–20-	5283 Calibrator 1- 5 1 mL
	- <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	of the substance or <b>n</b>	nixture and uses advised against
		a method for determination of Insulin in
	porcine serum or	plasma.
1.3 Details of the supplier of	f the safety data she	et
	Mercodia AB	
	Sylveniusgatan 8A	A
	754 50 UPPSALA	A, SWEDEN
	tel: +46 (0) 18-57	
	fax: +46 (0) 18-57	7 00 80
	e-mail: info@mer	codia.se
1.4 Emergency telephone	tel: +46 (0) 18-57	00 70
		· •
2.1a Classification of the su	bstance or mixture ( Included in solution	on <sup>H)</sup>
	<b>bstance or mixture (</b> Included in solution This material is co	on <sup>H)</sup> possible of the OSHA Hazard
2.1a Classification of the su	<b>bstance or mixture (</b> Included in solution This material is concerned on the solution S	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200).
2.1a Classification of the su	<b>bstance or mixture (</b> Included in solution This material is con Communication S H315 SKIN IRRI	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200). TATION - Category 2
<b>2.1a Classification of the su</b> OSHA/HCS status:	bstance or mixture ( Included in solution This material is concerned Communication S H315 SKIN IRRI H318 SERIOUS F	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200).
2.1a Classification of the su	bstance or mixture ( Included in solution This material is concerned Communication S H315 SKIN IRRI H318 SERIOUS F uric acid)	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200). TATION - Category 2
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<ul> <li>2.1a Classification of the su OSHA/HCS status:</li> <li>2.2a Label elements (Sulpho Signal word:</li> </ul>	bstance or mixture ( Included in solution This material is control Communication S H315 SKIN IRRI H318 SERIOUS H Uric acid)	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200). TATION - Category 2 EYE DAMAGE - Category 1
<ul> <li>2.1a Classification of the su OSHA/HCS status:</li> <li>2.2a Label elements (Sulpho Signal word:</li> </ul>	bstance or mixture ( Included in solution This material is control Communication S H315 SKIN IRRI H318 SERIOUS H Uric acid) Danger H318 - Causes ser	tious eye damage.
<ul> <li>2.1a Classification of the su OSHA/HCS status:</li> <li>2.2a Label elements (Sulpho Signal word:</li> </ul>	bstance or mixture ( Included in solution This material is control Communication S H315 SKIN IRRI H318 SERIOUS H Uric acid)	tious eye damage.
<ul> <li>2.1a Classification of the su OSHA/HCS status:</li> <li>2.2a Label elements (Sulphone)</li> <li>Signal word: Hazard statements:</li> </ul>	bstance or mixture ( Included in solution This material is control of Communication S H315 SKIN IRRI H318 SERIOUS H Uric acid) Danger H318 - Causes ser	tious eye damage.
<ul> <li>2.1a Classification of the su OSHA/HCS status:</li> <li>2.2a Label elements (Sulpho Signal word: Hazard statements:</li> <li>Precautionary statements</li> </ul>	bstance or mixture ( Included in solution This material is concerned by the constraint of the constraints of the constraint of the constra	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200). TATION - Category 2 EYE DAMAGE - Category 1 EYE damage. in irritation.
<b>2.1a Classification of the su</b> OSHA/HCS status:	bstance or mixture ( Included in solution This material is concerned Communication S H315 SKIN IRRI H318 SERIOUS F uric acid) Danger H318 - Causes ser H315 - Causes ski P280 - Wear prote	<ul> <li><sup>(h)</sup></li> &lt;</ul>
<ul> <li>2.1a Classification of the su OSHA/HCS status:</li> <li>2.2a Label elements (Sulpho Signal word: Hazard statements:</li> <li>Precautionary statements</li> </ul>	bstance or mixture ( Included in solution This material is concommunication S H315 SKIN IRRI H318 SERIOUS H uric acid) Danger H318 - Causes ser H315 - Causes ski P280 - Wear protect	on <sup>H)</sup> onsidered hazardous by the OSHA Hazard tandard (29 CFR 1910.1200). TATION - Category 2 EYE DAMAGE - Category 1 EYE damage. in irritation.



	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 sub	ostance or mixture (Kathon CG)
	Included in solutions <sup>C)</sup> , <sup>D)</sup> <sup>E)</sup> and <sup>G)</sup>
	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 (Kathor	• •
	$\wedge$
	$\mathbf{V}$
Signal word:	Warning
Hazard statement:	H317 – May cause an allergic skin reaction
<b>.</b> .	
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 requirem	ents
Tactile warning of danger	Not applicable
2.3 Other hazards	11
	None known



SECTION 3: Composition / information on ingredients 3.2 Mixtures Hazardous ingredients:		
Kathon CG <sup>3)</sup> Index-No: 613-167-00-5 CAS-No: 55965-84-9 EC-No: -	<b>Conc %</b> 0.15 <sup>3)</sup>	<b>Classification</b> <sup>2)</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
<ul> <li>precautionary statemen</li> <li>3) Included in solutions <sup>C)</sup> Kathon CG is a mixture 4-isothiazolin-3-one (E 239-6), in a mixture wi this mixture in the Kath dangerous mixture in the</li> </ul>	ts in section 16. , <sup>D)</sup> , <sup>E)</sup> and <sup>G)</sup> . e of substances where two of G-nr 247-500-7) and 2-meth th the proportion 3:1 has a C non CG is 1.5 w-% which given he product.	scription of Hazard statements and f the components, 5-chloro-2-methyl- nyl-2H-isothiazol-3-one (EG-nr 220- CAS No 55965-84-9. The content of ves the content of 0.0023 w-% of the
SECTION 4: First aid me	asures	
4.1 Description of first aid Inhalation:	Breathe fresh air and re	est. If breathing is difficult, give
Skin contact:	oxygen. Remove contaminated or soap and water.	clothing. Wash the affected area with
Eye contact: Ingestion:	Rinse immediately with 15 minutes with the eye symptoms persist. Rinse mouth and throat	n copious amount of water for at least elid held wide open. Consult a doctor if with water. Consult a doctor if er give anything to drink / eat to an
4.2a Most important sym	toms and effects, both acu	te and delayed
Potential acute health effe		U
Eye contact: Inhalation:	Causes serious eye dam No known significant e	hage ffects or critical hazards



Skin contact:	Causes skin irritation
Ingestion:	No known significant effects or critical hazards
g	
4.2b Most important sympton	ns 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 immedia	ate medical attention and special treatment needed
Notes to physician:	Treat symptomatically. Contact poison treatment specialist
rotes to physician.	immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
Specific dealinents.	
SECTION 5: Fire-fighting me	easures
5.1 Extinguishing media	
	Water, carbon dioxide, powder, foam.
5.2 Special hazards arising from	om the substance or mixture
	Decomposition products may include the following materials:
	carbon dioxide, carbon monoxide and sulphur oxide
<b>5.3</b> Advice for firefighters	
_	No action shall be taken involving any personal risk or
	without suitable training.
SECTION 6: Accidental relea	ase measures
6.1 Personal precautions, pro	tective equipment and emergency procedures
	See "Precautions for safe handling", section 7.1 and
	"Exposure controls" section 8.2.
6.2 Environmental precaution	
_	Avoid dispersal of spilled material and runoff and contact
	with soil, waterways, drains and sewers.
6.3 Methods and material for	
	Clean up with absorbent paper and dispose of in a sealed
	container.
6.4 Reference to other section	S
	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 ha		
	8).	onal protective equipment (see Section n. Direct physical contact with all duct should be avoided.
7.2 Conditions for safe stor		
		closed and at 2-8°C. Keep from
7.3 Specific end use(s)	Industrial applications.	Professional applications.
<b>SECTION 8: Exposure con</b>	ntrol/personal protection	
8.1 Control parameters		
Occupational exposure Limi	ts exists for the following su	ubstances:
Substance Limit	value – Eight hours	Limit value – Short term
(Unit)	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 legisla	tion for details.	
8.2 Exposure controls		
	with the product. An en should be available in t	-
Engineering controls:	Not applicable for the m	
Eye/face protection:	Use chemical safety gog	ggles where splashing is possible.
Skin protection Hand protection:	Chemical resistant glov used if risk of direct con	es (butyl rubber, PE or PVC) may be
<b>Respiratory protection:</b>	Based on the hazard an	d potential for exposure, select a e appropriate standard or certification.
Thermal hazards:	None known	appropriate standard of certification.
Environmental exposure		
controls:		tion or work process equipment should ey comply with the requirements of on legislation
<b>SECTION 9: Physical and</b>	chemical properties	
9.1 Information on basic p		
Appearance:	B), C), D), E), F), G), and H) Liquid	
Colour:	B), F), G) and H)Colourless C)	Blue and <sup>D), E)</sup> Yellow.
Odour:	Odourless	
Odour threshold:	Not available.	



nU.	B) (C) D) E) and (G) oppr 7 Eleppr 4 and Hleppr 0.5
pH: Molting point/Encoging points	B), C), D), E) and G) appr. 7 <sup>F)</sup> appr. 4 and <sup>H)</sup> appr. 0.5
Melting point/Freezing point:	Approximately 0°C
Initial boiling point and	Approximately 100 °C
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.
<b>Relative Density (g/cm<sup>3</sup>)</b>	B), C), D), E), F), G) and H) Approximately 1
Solubility (ies):	Soluble in water
Partition coefficient;	
N-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
<b>Decomposition temperature:</b>	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.
9.2 Other information	
	No additional information.
SECTION 10: Stability and r	eactivity
10.1 Reactivity	No specific test data related to reactivity available for this
	product or its ingredients
<b>10.2</b> Chemical stability	Stable under normal conditions.
10.3 Possibility of	
hazardous reactions	Under normal conditions of storage and use, hazardous
	reactions will not occur
<b>10.4 Conditions to avoid</b>	No specific data
10.5a Incompatible materials	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	May react or be incompatible with oxidizing materials.
10.6 Hazardous decompositio	n
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
IIIItation	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
Sensitization	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	Not available.
Carcinogenicity	Not available.
Mutagenicity	Not available.
Toxicity for reproduction	Not available.
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.
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 info	rmation
12.1 Toxicity	
	<sup>H)</sup> Sulphuric acid 96%:
	IC (figh $O(h)$ 12 mg/ $I$ (magging figh)

 $LC_{50}$  (fish, 96h) 42 mg/L (mosquito fish)  $EC_{50}$  (daphnia, 48h) >29 mg/L

#### 12.2 Persistence and degradability

Not available. <sup>H)</sup> is being proteolysed to  $H^+$  and  $SO_4^{2-}$ .



12.3 Bioaccumulative potential		
	Not available.	
12.4 Mobility in soil		
	Not available.	
12.5 Results of PBT and vPv		
	Not applicable.	
<b>12.6 Other adverse effects</b>		
	No known significant effects or critical hazards.	
SECTION 13: Disposal consi	derations	
13.1 Waste treatment method		
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. 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 info	ormation	
Regulatory information ADR/RID / IMDG / IATA	Not reculated	
	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.	
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC code</b> 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. 190 authorization Annex XIV	7/2006 (REACH) Annex XIV - List of substances subject to 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 assessm		
	This product contains substances for which Chemical Safety Assessments might still be required.	
<b>SECTION 16: Other inform</b>	ation	
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 s	sources for data: (EC) 1272/2008, Supplier's SDS	
List of hazard statements and		
H331 = Toxic if inhaled.		
H311 = Toxic in contact with skin.		
	H301 = Toxic if swallowed.	
	H314 = Causes severe skin burns and eye damage.	
5		
5	1	
H410 = Very toxic to aquatic life with long lasting effects. Skin Corr. 1A, H314 = SKIN CORROSION/IRRITATION - Category 1A		
The above information is belie	eved to be correct and may not be all conclusive; however, it	

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.