

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1 Product Identifier	Total Insulin Northern Lights MBeads Assay 10-1353-01-A)20-7635MBeads Antibody, 2.5 mL-B)20-7619Calibrator 0, 5 mL	
	 C)20-7620 – 20-7626 Calibrator 1- 7, 1000 μL D)20-7628 Control, 1000 μL E) 20-7630 Assay Buffer, 47 mL F)20-7633 Enzyme Conjugate 44X, 1 mL G)20-6746 Wash Buffer 21X, 50 mL H)20-7300 Substrate Reagent A, 7 mL D)20-7301 Substrate Reagent B, 7 mL 	
 1.2 Relevant identified use of the substance or mixture and uses advised against Mercodia's Total Insulin Northern Lights MBeads Assay is intended to be used for the measurement of Insulin in conditioned media from perifusion experiments or other <i>in</i> <i>vitro</i> cultures from cells derived from human and mouse specimens. 		
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 ident	ification	
 2.1 Classification of the substance or mixture (Kathon CG) Included in solutions ^{A), B). 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. 		



2.2 Label elements	
	\checkmark
Signal word: Hazard statement:	Warning 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: Disposal:	Not applicable 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 requireme Tactile warning of danger:	nts Not applicable
2.3 Other hazards	None known

🗲 Mercodia

MATERIAL SAFETY DATA SHEET

Total Insulin Northern Lights MBeads Assay

SECTION 3: Composition / information on ingredients

3.1 Mixtures Hazardous ingredients:

Kathon CG ²⁾		
Index-No: 613-167-00-5		
CAS-No: 55965-84-9		
EC-No: -		

Conc % 0.15²⁾

Classification¹⁾ 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) Classification according to (EC)1272/2008. See description of Hazard statements and precautionary statements in section 16.
- 2) Included in solution ^{A), B)} ^{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	SECTION	4:	First	aid	measures
--------------------------------------	----------------	----	-------	-----	----------

SECTION 4. Prist and incast			
4.1 Description of first aid m			
4.1 Description of first aid m			
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 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		
	The known significant effects of efficial hazards		
4.3 Indication of any immedi	ate 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. Eine fighting m			
SECTION 5: Fire-fighting m	leasures		
5.1 Extinguishing media			
Con Examplesting incum	Water, carbon dioxide, powder, foam.		
5 2 Special hazards arising fi	rom the substance or mixture		
special nazaras arising n	Decomposition products may include the following materials:		
	carbon dioxide and carbon monoxide.		
5.3 Advice for firefighters			
Sie Autrice for menginers	No action shall be taken involving any personal risk or		
	without suitable training.		
	white out surmore training.		
SECTION 6: Accidental rele	ase measures		
6.1 Personal precautions, protective equipment, and emergency procedures			
	See "Precautions for safe handling", section 7.1 and		
() Environmental	"Exposure controls" section 8.2.		
6.2 Environmental precautio			
	Avoid dispersal of spilled material and runoff and contact		
	with soil, waterways, drains and sewers.		
o.s Methods and material for	r containment and cleaning up		



	Clean up with absorbent paper and dispose of in a sealed		
	container.		
5.4 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		
<u> </u>			
7.1 Precautions for safe hand	lling		
	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 stora	ge, including any incompabilities		
	Keep container tightly closed and at 2-8°C.		
7.3 Specific end use(s)			
	Industrial applications. Professional applications.		
SECTION 8: Exposure cont	rol/norsonal protection		
SECTION 8. Exposure cont			
8.1 Control parameters			
The mixture contains no subst	ances 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 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.		



Total Insulin Northern Lights MBeads Assay

SECTION 9: Physical and chemical properties

9.1 Information on basic phys	sical and chemical properties		
Appearance:	A), B), C), D), E), F), G), H), and I) Liquid		
Colour:	^{A)} Colourless with black beads ^{E), F), G), H) and I)} Colourless and ^{B),} ^{C)} and ^{D)} Yellow.		
Odour:	Odourless		
Odour threshold:	Not available.		
pH:	^{H)} and ^{I)} appr. 9 ^{A)} , ^{B)} , ^{E)} , ^{F)} and ^{G)} appr. 7 and ^{C)} and ^{D)} appr. 6		
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/cm ³)	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 r	eactivity	
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 decompositio		
products	Under normal conditions of storage and use, hazardous	
	decomposition products should not be produced.	
SECTION 11: Toxicological i	nformation	
11.1 Information on toxicolog		
A 4 • - • 4		
Acute toxicity	5 shlars 2 method 4 josthiazelin 2 one (EC ar 247 500 7)	
	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	ing/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. 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.	
Toxicity for reproduction		
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.			
	5 1 8			
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 potentia				
12.4 Mability in sail	Not available.			
12.4 Mobility in soil	Not available.			
12.5 Results of PBT and vPvI				
	Not applicable.			
12.6 Other adverse effects				
	No known significant effects or critical hazards.			
SECTION 13: Disposal considerations				
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.			
	chemicals other than mose mentioned in 10 01 00.			
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.			



Total Insulin Northern Lights MBeads Assay

SECTION 14: Transport inf	ormation	
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 per		
	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 in	formation	
•	onmental regulations/legislation specific for the substance or	
mixture		
e ()	7/2006 (REACH) Annex XIV - List of substances subject to	
authorization Annex XIV	None of the components are listed	
Substances of very high cond	oorne	
Substances of very high cond	None of the components are listed	
	None of the components are listed	
National inventory:	United States: All components are listed or exempted.	
v	1 1	
15.2 Chemical safety assessm	ient	
	This product contains substances for which Chemical Safety	
	Assessments might still be required.	
SECTION 16: Other inform	ation	
Revised in section (-s):	Version 2022-09-07 is completely updated in section 1.2.	
Revised in section (-s).	version 2022-09-07 is completely updated in section 1.2.	
Key literature references and s	sources for data:	
	(EC) 1272/2008, Supplier's SDS	
List of hazard statements and	precautionary statements:	
H331 $=$ Toxic if in	haled.	
H311 = Toxic in contact with skin.		
H301 = Toxic if swallowed.		
= Causes severe skin burns and eye damage.		
	e an allergic skin reaction.	
-	to aquatic life.	
H410 = Very toxic	to aquatic life with long lasting effects.	
TThe shares ' C (' ' 1 1'		
	eved 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.