

SAFETY DATA SHEET

Northern Lights Mercodia Lispro NL-ELISA

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

| | | | |
|-------------------------------|---|-------------------------|----------------|
| 1.1 Product Identifier | Northern Lights Mercodia Lispro NL-ELISA 10-1291-01 | | |
| | - ^{A)} 20-7463 | Coated plate | |
| | - ^{B)} 20-7494 | Enzyme Conjugate 11X | 1.3 mL |
| | - ^{C)} 20-7491 | Enzyme Conjugate Buffer | 13 mL |
| | - ^{D)} 20-7473 | Calibrator 0 | 0.5 mL |
| | - ^{E)} 20-7475, 20-7476 | | |
| | | 20-7477, 20-7478, | |
| | | 20-7479, 20-7480 | Calibrator 1-6 |
| | - ^{F)} 20-7495 | Substrate NL Ultra A | 2 mL |
| | - ^{G)} 20-7496 | Substrate NL Ultra B | 4 mL |
| | - ^{H)} 20-6746 | Wash Buffer 21X | 50 mL |
| | - ^{I)} 20-7489 | Assay Buffer | 14 mL |
| | - ^{J)} 20-7474 | Anchor Point Low | 0.5 mL |
| | - ^{K)} 20-7481 | Anchor Point High | 0.5 mL |
| | - ^{L)} 20-7485 | Control Low | 0.5 mL |
| | - ^{M)} 20-7486 | Control Medium | 0.5 mL |
| | - ^{N)} 20-7487 | Control High | 0.5 mL |

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

The test provides a method for the quantitative determination of Lispro in human and porcine plasma and serum samples.

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 (Kathon CG)

Included in solutions ^{C), D), E), H), I), J), K), L), M) and N)}

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.

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2.2 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.

2.3 Other hazards

None known.

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SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients:

| Kathon CG ²⁾ | Conc % | Classification ¹⁾ |
|-------------------------|--------------------|------------------------------|
| Index-No: 613-167-00-5 | 0.15 ²⁾ | 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) Classification according to (EC)1272/2008. See description of Hazard statements and precautionary statements in section 16.
- 2) Included in solutions C), D), E), H), I), J), K), L), M) and N)
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

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| 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 (Kathon CG)

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|---------------|---|
| 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

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| Notes to physician: | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments: | No specific treatment. |

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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

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.

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.

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

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|---|---|
| Engineering controls: | product. An emergency shower and/or an eye bath should be available in the workplace. |
| Eye/face protection: | Not applicable for the mixtures. |
| Skin protection | Use chemical safety goggles where splashing is possible. |
| 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

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| Appearance: | B), C), F), G), H), and I) Liquid , A), D), E), J), K), L), M), and N) Solid . |
| Colour: | B), F), G) and H), Colourless D), E), J), K), L), M) and N) Slightly yellow and turbid , ^o Blue and ¹ Red. |
| Odour: | Odourless. |
| Odour threshold: | Not available. |
| pH: | Approximately 7. |
| Melting point/Freezing point: | Approximately 0 °C. |
| Initial boiling point and boiling range: | 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) | Approximately 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.

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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. |
| 10.5 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 | 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 | 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. |

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| 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 | 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. 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 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 |

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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

Revised in section (-s): This is the first revision.

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.