

**HDL/LDL-Calibrator**

Date 14.9.2007

Previous date: 15.3.2004

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****1.1 Identification of the article****1.1.1 Commercial Product Name**

HDL/LDL-Calibrator

**1.1.2 Product code**

981657

**1.2 Use of the Substance/Preparation****1.2.1 Expressed in writing**

In vitro diagnostic calibrator/control for the clinical chemistry analyser.

**1.3 Identification of the substance/preparation and the company/undertaking****1.3.1 Supplier**

Thermo Fisher Scientific Oy, Clinical Diagnostics Finland

**1.3.2 Contact information:**

Ratastie 2, P.O.Box 100  
FI-01621 Vantaa  
FINLAND  
+358-9-329 100  
+358-9-3291 0300  
FI09215470

**2. COMPOSITION/INFORMATION ON INGREDIENTS****2.1 Hazardous components****2.1.1****CAS number  
or other code**

26628-22-8

**2.1.2****Chemical name of the substance**

Sodiumazide

**2.1.3****Concentration**

&lt; 1 %

**2.1.4****Classification**

T+; R28;R32  
N; R50/53  
Very toxic, Dangerous for the  
environment

**2.1.7 Further information**

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**3. HAZARDS IDENTIFICATION**

Harmful if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES****4.2 Inhalation**

If fumes from reactions are inhaled, move to fresh air immediately.

**4.3 Skin contact**

Wash off with plenty of water. Clean with disinfectants. If symptoms persist, call a physician.

**4.4 Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

**4.5 Ingestion**

Drink plenty of water. Ingest activated charcoal. Call a physician immediately.

**5. FIRE-FIGHTING MEASURES**

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- 5.1 Suitable extinguishing media**  
Carbon dioxide (CO<sub>2</sub>), dry powder, water.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions**  
Use personal protective equipment.
- 6.2 Environmental precautions**  
-
- 6.3 Methods for cleaning up**  
Use a non-sparking shovel and place into a suitably labeled container for later disposal. Do not dry sweep. Avoid dust formation.

**7. HANDLING AND STORAGE**

- 7.1 Handling**  
-
- 7.2 Storage**  
Keep at temperatures between 2 and 8 °C. Must be stored in cool place and away from acids.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.1 Exposure Limit Values**
- 8.1.1 HTP values**
- |            |             |                             |                                |
|------------|-------------|-----------------------------|--------------------------------|
| 26628-22-8 | Sodiumazide | 0.1 mg/m <sup>3</sup> (8 h) | 0.3 mg/m <sup>3</sup> (15 min) |
|            |             | Skin                        |                                |
- 8.2 Exposure controls**
- 8.2.1 Occupational exposure controls**  
-
- 8.2.1.1 Respiratory protection**  
Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment.
- 8.2.1.2 Hand protection**  
Protective gloves.
- 8.2.1.3 Eye protection**  
Goggles.
- 8.2.1.4 Skin and body protection**  
Lab coat.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 General Information (appearance, odour)**  
White, odourless, solid.
- 9.2 Important Health Safety and Environmental Information**
- 9.2.1 pH** 8.0
- 9.2.2 Boiling point/range** -
- 9.2.3 Flash point** -
- 9.2.5 Explosive properties**
- 9.2.5.1 Lower explosion limit** -
- 9.2.5.2 Upper explosion limit** -
- 9.2.7 Vapour pressure** -
- 9.2.8 Relative density** -

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- 9.2.9 Solubility**
- 9.2.9.1 Water solubility** completely soluble
- 9.2.9.2 Fat solubility (solvent - oil to be specified)** -
- 9.2.10 Partition coefficient (n-octanol/water)** -

**10. STABILITY AND REACTIVITY**

- 10.3 Hazardous decomposition products**
- 

**11. TOXICOLOGICAL INFORMATION**

- 11.1 Acute toxicity**  
Sodiumazide ( $\text{NaN}_3$ ):  
LD50/oral/rat = 27 mg/kg  
LD50/dermal/rabbit = 20 mg/kg  
LDLo/oral/human = 143 mg/kg  
Systemic effects: CNS disorders, cardiovascular failure, tachycardia, drop in blood pressure, coughing, dyspnea, spasms, headache, dizziness, nausea, vomiting, collapse, unconsciousness.
- 11.2 Primary irritation**  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause irritation to mouth, throat and stomach.  
May cause irritation to the eyes, with effects including: tearing and blurred vision. These effects are anticipated to be of a short acting nature, if the product is removed promptly.  
May cause irritation to the skin, with effects including: redness and itchiness.
- 11.3 Sensitisation**  
Chronic exposure may cause dermatitis.
- 11.5 Human experience**
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**12. ECOLOGICAL INFORMATION**

- 12.1 Ecotoxicity**
- 12.1.1 Aquatic toxicity**  
Sodiumazide ( $\text{NaN}_3$ ):  
LC50/96 h/fish (*L. macrochirus*) = 0.7 mg/l  
EC50/96 h/daphnia = 4.2 mg/l  
IC50/mixed culture of green algae = 272 mg/l
- 12.1.2 Toxicity to other organisms**  
Sodiumazide ( $\text{NaN}_3$ ):  
EC50/Photobacterium phosphoreum = 38.5 mg/l
- 12.2 Mobility**
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- 12.3 Persistence and degradability**
- 12.3.1 Biodegradation**
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- 12.3.2 Chemical degradation**
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- 12.4 Bioaccumulative potential**
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**13. DISPOSAL CONSIDERATIONS**

The product has to be disposed of as laboratory chemical in accordance with local regulations.

**14. TRANSPORT INFORMATION****14.3 Land transport****14.3.1 Class** -**14.3.2 Risk No.** -**14.3.3 Description of the goods** -**14.3.4 Further Information** -**14.4 Sea transport****14.4.1 IMDG** -**14.4.2 Proper shipping name** -**14.4.3 Further Information** -**14.5 Air transport****14.5.1 ICAO/IATA** -**14.5.2 Proper shipping name** -**14.5.3 Further Information** -**15. REGULATORY INFORMATION****15.1 Information on the warning label****EC Label** 247-852-1**15.1.1 Letter code of the warning symbol and indications of danger for the preparation**

Xn Harmful

**15.1.2 Names of the ingredients given on the warning label**

Sodiumazide

**15.1.3 R-phrases(s)**

R21/22 Harmful in contact with skin and if swallowed.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**15.1.4 S-phrase(s)**

S28b After contact with skin, wash immediately with plenty of water.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

**15.1.5 Special regulations on certain preparations**

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**15.2 National regulatory information:**

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**16. OTHER INFORMATION****16.1 List of the relevant R phrases**

R21/22 Harmful in contact with skin and if swallowed.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R28 Very toxic if swallowed.

R32 Contact with acids liberates very toxic gas.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**16.4 Additional information available from:**

Code of the Material Safety Data Sheet: D02034-03-03-MSDS-HDL/LDL-Calibrator-EN  
Corporation mentioned in point 1.3.

The information in this datasheet is to our best knowledge correct and complete, and is offered in good faith as accurate. It characterizes the product with regard to the appropriate safety precautions. It does not guarantee properties of the product.

**16.5 Literary reference**

This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC. The MSDS of the manufacturer.

**16.6 Additions, Deletions, Revisions**

Changes in the sections 1.3 and 13.

**Date**

14.09.2007

**Signature**

LMKo