

**HDL CHOLESTEROL CALIBRATOR**

|               |                    |         |     |
|---------------|--------------------|---------|-----|
| Creation date | 28th May 2015      | Version | 4.0 |
| Revision date | 14th February 2024 |         |     |

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

**1.1. Product identifier**  
Substance / mixture HDL CHOLESTEROL CALIBRATOR  
Number mixture  
UFI BLT00072  
Other mixture names N8WG-MWMS-TJ59-08EN  
HDL C CAL

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**

The reagent is intended for the quantitative determination of HDL cholesterol by the HDL C DIRECT 240 test in human serum.

**Main intended use**

PC-MED-OTH Other medical devices

**Secondary uses**

PC-TEC-19 Reagents and laboratory chemicals

**Mixture uses advised against**

not available

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

|                             |   |
|-----------------------------|---|
| Name or trade name          | Erba Lachema s.r.o.                             |
| Address                     | Karásek 2219/1d , Brno, 62100<br>Czech Republic |
| Identification number (CRN) | 26918846  |
| VAT Reg No                  | CZ26918846                                      |
| Phone                       | +420 517 077 111                                |
| E-mail                      | msds@erba.com                                   |
| Web address                 | www.erbalachema.com                             |

**Competent person responsible for the safety data sheet**

|        |                     |
|--------|---------------------|
| Name   | Erba Lachema s.r.o. |
| E-mail | msds@erba.com       |

**1.4. Emergency telephone number**

European emergency number: 112 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Skin Sens. 1A, H317

**Most serious adverse effects on human health and the environment**

May cause an allergic skin reaction.

**2.2. Label elements****Hazard pictogram****Signal word**

Warning

**Hazardous substances**

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one

**Hazard statements**

H317 May cause an allergic skin reaction.

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**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers                 | Substance name  | Content in % weight | Classification according to Regulation (EC) No 1272/2008  | Note |
|--|---|---------------------|---|------|
| Index: 613-167-00-5<br>CAS: 55965-84-9 | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one | <0,06               | Acute Tox. 3, H301<br>Acute Tox. 2, H310+H330<br>Skin Corr. 1C, H314<br>Skin Sens. 1A, H317<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=100)<br>EUH071<br>Specific concentration limit:<br>Eye Irrit. 2, H319: 0.06 % ≤ C < 0.6 %<br>Skin Sens. 1A, H317: C ≥ 0.0015 %<br>Skin Irrit. 2, H315: 0.06 % ≤ C < 0.6 %<br>Skin Corr. 1C, H314: C ≥ 0.6 %<br>Eye Dam. 1, H318: C ≥ 0.6 %<br>ATE Oral = 67 mg/kg bw<br>ATE Dermal = 140 mg/kg bw<br>ATE Inhalation (vapor) = 0,17 mg/l<br>ATE Inhalation (dust/mist) = 0,005 mg/l | 1, 2 |

**Notes**

1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. Remove contaminated clothes immediately.

**If inhaled**

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

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**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

**If swallowed**

Rinse out the mouth with clean water. Do NOT induce vomiting. In the event of issues, find medical help.

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

Not expected.

**If on skin**

May cause an allergic skin reaction.

**If in eyes**

Not expected.

**If swallowed**

Irritation, nausea.

**4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**

Deposited combustible dust has considerable explosion potential. Hazardous combustion products: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), sulphur oxides (SO<sub>x</sub>).

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters: use suitable breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes. Ventilate affected area.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

**6.3. Methods and material for containment and cleaning up**

Collect spillage, collect in tightly closed containers and dispose of according to section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Use local and general ventilation. Keep away from sources of ignition - No smoking. Avoid release to the environment. Do not eat, drink and smoke in work areas. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect against external exposure, such as heat, frost, UV-radiation/sunlight. Keep away from food, drink and animal feedingstuffs. Provision of sufficient ventilation.

Storage temperature min 2 °C, max 8 °C

**7.3. Specific end use(s)**

For in vitro diagnostic devices.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

The mixture contains no substances for which occupational exposure limits are set.

**DNEL**

| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |                   |                        |                          |                     |        |
|---|-------------------|------------------------|--------------------------|---------------------|--------|
| Workers / consumers   | Route of exposure | Value                  | Effect                   | Value determination | Source |
| Workers   | Inhalation        | 0.02 mg/m <sup>3</sup> | Chronic effects local    |                     |        |
| Consumers   | Inhalation        | 0.02 mg/m <sup>3</sup> | Chronic effects local    |                     |        |
| Consumers   | Oral              | 0.09 mg/kg bw/day      | Chronic effects systemic |                     |        |

**PNEC**

| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |             |                     |        |
|---|-------------|---------------------|--------|
| Route of exposure   | Value       | Value determination | Source |
| Drinking water  | 3.39 µg/l   |                     |        |
| Marine water  | 3.39 µg/l   |                     |        |
| Microorganisms in sewage treatment  | 0.23 mg/l   |                     |        |
| Freshwater sediment   | 0.027 mg/kg |                     |        |
| Sea sediments   | 0.027 mg/kg |                     |        |
| Soil (agricultural)   | 0.01 mg/kg  |                     |        |

**8.2. Exposure controls**

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. General ventilation.

**Eye/face protection**

Wear eye/face protection.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

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**Respiratory protection**

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2. Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|  |   |
|--|---|
| Physical state   | solid (lyofilizát)                                |
| Colour   | pale yellow                                       |
| Odour  | nearly odourless                                  |
| Melting point/freezing point                             | data not available                                |
| Boiling point or initial boiling point and boiling range | 100 °C  |
| Flammability   | this material is combustible, but will not ignite |
| Lower and upper explosion limit                          | data not available                                |
| Flash point  | data not available                                |
| Auto-ignition temperature                                | data not available                                |
| Decomposition temperature                                | data not available                                |
| pH   | data not available                                |
| Kinematic viscosity                                      | data not available                                |
| Solubility in water                                      | data not available                                |
| Solubility in fats                                       | data not available                                |
| Partition coefficient n-octanol/water (log value)        | data not available                                |
| Vapour pressure  | data not available                                |
| Density and/or relative density                          | data not available                                |
| Relative vapour density                                  | data not available                                |
| Particle characteristics                                 | data not available                                |
| Form   | pale yellow lyophilisate                          |

**9.2. Other information**

|                      |   |
|----------------------|---|
| Evaporation rate     | data not available                              |
| Oxidising properties | It is not oxidising.                            |
| Explosive properties | The product does not have explosive properties. |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

This material is not reactive under normal ambient conditions.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

**10.5. Incompatible materials**

Protect against strong acids, bases and oxidizing agents.

**10.6. Hazardous decomposition products**

Not developed under normal uses.

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**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

No toxicological data is available for the mixture.

**Acute toxicity**

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |                  |              |               |         |     |
|---|------------------|--------------|---------------|---------|-----|
| Route of exposure   | Parameter        | Value        | Exposure time | Species | Sex |
| Oral  | LD <sub>50</sub> | 64 mg/kg     |               | Rat     |     |
| Dermal  | LD <sub>50</sub> | 87.12 mg/kg  |               | Rabbit  |     |
| Inhalation  | LC <sub>50</sub> | 0.33 mg/l    | 4 hours       | Rat     |     |
| Oral  | ATE              | 67 mg/kg bw  |               |         |     |
| Dermal  | ATE              | 140 mg/kg bw |               |         |     |
| Inhalation (vapor)  | ATE              | 0.17 mg/l    |               |         |     |
| Inhalation (dust/mist)  | ATE              | 0.005 mg/l   |               |         |     |

**Skin corrosion/irritation**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Serious eye damage/irritation**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction. Data for the components of the mixture are not available.

**Germ cell mutagenicity**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Carcinogenicity**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Reproductive toxicity**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Toxicity for specific target organ - single exposure**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Toxicity for specific target organ - repeated exposure**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Aspiration hazard**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

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**11.2. Information on other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**SECTION 12: Ecological information****12.1. Toxicity**

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

**Acute toxicity**

| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |            |               |   |             |
|---|------------|---------------|---|-------------|
| Parameter   | Value      | Exposure time | Species                                 | Environment |
| LC <sub>50</sub>  | 0.19 mg/l  | 96 hours      | Fish (Oncorhynchus mykiss)              |             |
| EC <sub>50</sub>  | 0.16 mg/l  | 48 hours      | Daphnia (Daphnia magna)                 |             |
| EC <sub>50</sub>  | 0.018 mg/l | 72 hours      | Algae (Pseudokirchneriella subcapitata) |             |
| ErC <sub>50</sub>   | 19.9 µg/l  | 72 hours      | Algae                                   |             |

**Chronic toxicity**

| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |            |               |                       |             |
|---|------------|---------------|-----------------------|-------------|
| Parameter   | Value      | Exposure time | Species               | Environment |
| NOEC  | >46.4 µg/l | 35 days       | Fish                  |             |
| LC <sub>50</sub>  | 0.07 mg/l  | 14 days       | Fish                  |             |
| EC <sub>50</sub>  | 0.18 mg/l  | 21 days       | Aquatic invertebrates |             |
| ErC <sub>50</sub>   | 45.6 µg/l  | 120 hours     | Algae                 |             |
| LOEL  | 0.06 mg/l  | 36 days       | Fish                  |             |
| LOEC  | 0.144 mg/l | 28 days       | Fish                  |             |

**12.2. Persistence and degradability**

No data are available for either the mixture or the components.

**12.3. Bioaccumulative potential**

Data for the mixture are not available.

| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |           |               |         |             |                  |
|---|-----------|---------------|---------|-------------|------------------|
| Parameter   | Value     | Exposure time | Species | Environment | Temperature [°C] |
| Log Kow   | 0.34-0.63 |               |         |             | 10°C             |

**12.4. Mobility in soil**

No data are available for either the mixture or the components.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7. Other adverse effects**

Wassergefährdungsklasse, WGK (water hazard class): 3

**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

**Packaging waste type code**

15 01 10\* packaging containing residues of or contaminated by hazardous substances

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information****14.1. UN number or ID number**

not subject to transport regulations

**14.2. UN proper shipping name**

not relevant

**14.3. Transport hazard class(es)**

not relevant

**14.4. Packing group**

not relevant

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).



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**Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended**

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one

| Restriction | Conditions of restriction   |
|-------------|---|
| 03          | <p>1. Shall not be used in:</p> <ul style="list-style-type: none"> <li>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>— tricks and jokes,</li> <li>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,</li> </ul> <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:</p> <ul style="list-style-type: none"> <li>— can be used as fuel in decorative oil lamps for supply to the general public, and</li> <li>— present an aspiration hazard and are labelled with H304.</li> </ul> <p>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</p> <p>5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:</p> <p>(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";</p> <p>(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";</p> <p>(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> |

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

|           |   |
|-----------|---|
| H301      | Toxic if swallowed.                                   |
| H314      | Causes severe skin burns and eye damage.              |
| H315      | Causes skin irritation.                               |
| H317      | May cause an allergic skin reaction.                  |
| H318      | Causes serious eye damage.                            |
| H319      | Causes serious eye irritation.                        |
| H400      | Very toxic to aquatic life.                           |
| H410      | Very toxic to aquatic life with long lasting effects. |
| H310+H330 | Fatal in contact with skin or if inhaled.             |

**Guidelines for safe handling used in the safety data sheet**

|                |  |
|----------------|--|
| P280           | Wear protective gloves/protective clothing/eye protection.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                       |

**A list of additional standard phrases used in the safety data sheet**

|        |                                     |
|--------|-------------------------------------|
| EUH071 | Corrosive to the respiratory tract. |
|--------|-------------------------------------|

**Other important information about human health protection**

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The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

|                     |   |
|---------------------|---|
| ADR                 | European agreement concerning the international carriage of dangerous goods by road               |
| BCF                 | Bioconcentration Factor   |
| CAS                 | Chemical Abstracts Service  |
| CLP                 | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC                  | Identification code for each substance listed in EINECS   |
| EC <sub>50</sub>    | Concentration of a substance when it is affected 50% of the population                            |
| EINECS              | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS                 | Emergency plan  |
| EU                  | European Union  |
| EuPCS               | European Product Categorisation System  |
| IATA                | International Air Transport Association   |
| IBC                 | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| ICAO                | International Civil Aviation Organization   |
| IMDG                | International Maritime Dangerous Goods  |
| IMO                 | International Maritime Organization   |
| INCI                | International Nomenclature of Cosmetic Ingredients  |
| ISO                 | International Organization for Standardization  |
| IUPAC               | International Union of Pure and Applied Chemistry   |
| LC <sub>50</sub>    | Lethal concentration of a substance in which it can be expected death of 50% of the population    |
| LD <sub>50</sub>    | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| log K <sub>ow</sub> | Octanol-water partition coefficient   |
| NOEC                | No observed effect concentration  |
| NPK                 | Maximum admissible concentration  |
| OEL                 | Occupational Exposure Limits  |
| PBT                 | Persistent, Bioaccumulative and Toxic   |
| PEL                 | Permissible Exposure Limit  |
| ppm                 | Parts per million   |
| REACH               | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID                 | Agreement on the transport of dangerous goods by rail   |
| UN                  | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB                | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC                 | Volatile organic compounds  |
| vPvB                | Very Persistent and very Bioaccumulative  |

|                 |  |
|-----------------|--|
| Acute Tox.      | Acute toxicity                                 |
| Aquatic Acute   | Hazardous to the aquatic environment           |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Eye Dam.        | Serious eye damage                             |
| Skin Corr.      | Skin corrosion                                 |
| Skin Sens.      | Skin sensitization                             |

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

**HDL CHOLESTEROL CALIBRATOR**

|               |                    |         |     |
|---------------|--------------------|---------|-----|
| Creation date | 28th May 2015      | Version | 4.0 |
| Revision date | 14th February 2024 |         |     |

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from  
the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

The version 4.0 replaces the SDS version from 12 July 2021. Changes were made in sections 2, 11, 12, 15 and 16.

**More information**

Classification procedure - calculation method.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.