

## Safety Data Sheet

according to the European Parliament and Council Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II

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Name of the mixture: **CHOLESTEROL**

### 1 Identification of the substance/mixture and company/undertaking

#### 1.1 Product identifier

CHOLESTEROL					
<b>Product Name</b>	CHOL 5x50	CHOL 440	CHOL 1000	CHOL 250	CHOL 576 XL-1000
<b>Catalog Number</b>	BLT00034	XSYS0009	BLT00035	BLT00036	XSYS0070
<b>Reagent 1</b>	5 x 50 ml	10 x 44 ml	1 x 1000 ml	1 x 250 ml	8 x 72 ml
<b>Calibrator</b>	1 x 5 ml	-	-	1 x 5 ml	-

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

The sets are designed for Health Service laboratories for determination of cholesterol concentration in serum and plasma. The mixture is intended for professional use.

#### 1.3 Details of the supplier of the safety data sheet

Name or trade name of manufacturer:	Erba Lachema s.r.o.
Place of business:	Brno, Karásek 1d, postcode 621 00
ID no.:	26918846
Phone:	+420 517 077 579
Fax:	+420 517 077 077
Qualified person:	Ing. Pavel Filka
E-mail:	<a href="mailto:filka@erbalachema.com">filka@erbalachema.com</a>
Phone:	+420 517 077 556

#### 1.4 Emergency telephone number

**Erba Lachema s.r.o.**

Phone: +420 517 077 556 (*service only during business hours*)

**Toxicological Information Centre (TIS), Na Bojišti 1, 128 01 Prague 2**

Phone: +420 224 919 293 or +420 224 915 402 (*service available 24 hours a day*)

### 2 Hazards Identification

#### 2.1 Classification of the mixture

The kit **Cholesterol** is **not classified** as dangerous according to EU Directives 1999/45/EC as amended

#### 2.2 Label elements

None

### 3 Composition/information on ingredients

#### 3.1 Composition

The reagent 1 contains the following hazardous substances:

Substance name	Content (% of weight)	CAS number	EC number	Classification according to (EC) No. 67/548 EEC
				Classification according to (EC) No. 1272/2008
<b>Sodium azide*</b>	< 0.05	26628-22-8	247-852-1	T+, N; R 28-32-50/53; S 28-45-60-61 Acute Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H300, H400, H410; P273, P501, EUH032
<b>4-</b>	< 0.08	83-07-8	201-452-3	Xn, R22-36/37/38; S 26-36

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<b>aminoantipirine</b>			Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335; P261, P305+P351+P338,
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The reagent 2 contains the following hazardous substances:

Substance name	Content (% of weight)	CAS number	EC number	Classification according to (EC) No. 67/548 EEC
				Classification according to (EC) No. 1272/2008
<b>Sodium azide*</b>	< 0.1	26628-22-8	247-852-1	T+; N; R 28-32-50/53; S 28-45-60-61 Acute Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H300, H400, H410; P273, P501, EUH032
<b>Sodium hydroxide*</b>	< 0.2	1310-73-2	215-185-5	C, R35; S 26-37/39-45 Skin Corr. 1A; H314; P280, P310, P305+P351+P338
<b>Isopropanol</b>	< 5	67-63-0	200-661-7	F, Xi; R 11-36-67; S 7-16-24/25-26 Flam. Liq. 2, Eye Irrit. 2; H225, H319, H336; P210, P261, P305+P351+P338

\*) Substance with exposure limits (exposure limits are listed in Chapter 8.1)

For a full text of R-phrases, S-phrases, H-phrases and P-phrases see Section 16.

## 4 First aid measures

### 4.1 Description of first aid measures

When working with the mixture, take care of personal hygiene and prevent contamination of work clothing and skin. If you have any doubts or when symptoms persist, seek medical attention.

#### Exposure by inhalation

Discontinue the exposure, remove casualty to fresh air, keep at rest and seek medical advice.

#### Exposure by contact with skin

Take off all contaminated clothing. After contact with skin, wash immediately with soap and water.

#### Exposure by contact with eyes

Rinse an open eye (hold eyelids with fingers) with plenty of water for about 15 minutes, transfer casualty to a specialist.

#### Exposure by ingestion

Rinse mouth with water, drink 1/2 l of lukewarm water, seek medical attention immediately, do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

None

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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### 5 Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

The mixture is not flammable, the measure should be adapted to burning substances in the surrounding area.

##### Unsuitable extinguishing media

None known.

#### 5.2 Special hazards arising from the substance or mixture

None

#### 5.3 Advice for firefighters

Protective clothing, breathing apparatus.

### 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment, see item 8. Observe the principles of work safety in chemical laboratories. Do not eat, drink or smoke.

#### 6.2 Environmental precautions

Do not discharge into the drains, surface waters, groundwater.

#### 6.3 Methods and material for containment and cleaning up

Absorb spilled agent with a suitable inert material (sand, earth, vapex) and store contaminated material in containers for collection of hazardous waste. For waste disposal see item 13.

Sweep solid reagent and store in containers for collection of hazardous waste. For waste disposal see item 13.

### 7 Handling and storage

#### 7.1 Precautions for safe handling

Observe the principles of work in laboratory. Observe the normal operating procedures for handling chemical substances and mixtures. Do not eat, drink or smoke. Use personal protective equipment, see item 8.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers at a temperature between +2°C and +8°C.

#### 7.3 Specific end use

The kit is designed for in vitro diagnostic devices.

### 8 Exposure controls/personal protection

#### 8.1 Exposure limit values

**Control parameters** of the mixture components according to Government Decree No. 361/2007 Coll.

CAS	Substance name	PEL	NPK-P	Note	Conversion factor for ppm
		mg/m <sup>3</sup>	mg/m <sup>3</sup>		
1310-73-2	Sodium hydroxide	1	2	-	
26628-22-8	Sodium azide	0.1	0.3	D	0.376

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*PEL - Permissible exposure limits; NPK-P - the maximum permissible concentration; D - a significant penetration of the substance through the skin or a strong irritating effect on the skin during exposure; S - the substance has a sensitizing effect; P - serious late effects of the substance cannot be excluded; \* - the physico-chemical properties (e.g. explosiveness) are taken into account for NPK-P.*

### Exposure limit values in the workplace according to Directive No. 2006/15/EC

CAS	Substance name	Limit values				Note
		8 hrs		Short time		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
26628-22-8	Sodium azide	0.1	-	0.3	-	skin

*The note "skin" attached to the exposure limit values in the workplace indicates the possibility of a serious penetration through the skin.*

**Limit values for indicators of biological exposure tests in urine** for the product according to Decree No. 432/2003 Coll.

No data available

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

None

### 8.2.2 Personal protective equipment

- A) Respiratory protection: Not required with adequate ventilation, otherwise breathing apparatus.
- B) Hand protection: Protective gloves - rubber, resistant to caustic substances.
- C) Eye protection: Safety goggles.
- D) Skin protection: Protective clothing:

### 8.2.3 Environmental exposure controls

To eliminate the emergency conditions, have pre-prepared a decontamination mixture and appropriate collection vessels for reaction residues. Dispose of reaction residues and decontaminated mixtures as hazardous waste water in accordance with relevant legal regulations.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Reagent 1

- a. Appearance..... Clear, colorless liquide
- b. Odour..... no data available
- c. Odour Threshold ..... no data available
- d. pH (při 20°C) ..... 6.8 – 7.2
- e. Melting point / freezing point..... no data available
- f. Initial boiling point and boiling range (°C) ..... no data available
- g. Flash point (°C) ..... no data available
- h. Evaporation rate ..... no data available
- i. Flammability (solid, gas)..... no data available
- j. Upper/lower flammability or explosive limits ..... no data available
- k. Vapour pressure (hPa)..... no data available
- l. Vapour density ..... no data available
- m. Relative density (kg.m-3)..... no data available
- n. Water solubility ..... no data available
- o. Partition coefficient: n- octanol/water..... no data available
- p. Autoignition temperature (°C) ..... no data available

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- q. Decomposition temperature (°C) ..... no data available
- r. Viscosity ..... no data available
- s. Explosive properties ..... no data available
- t. Oxidizing properties ..... no data available

### Standard (Calibrator)

- a. Appearance ..... Clear, colorless liquide
- b. Odour ..... no data available
- c. Odour Threshold ..... no data available
- d. pH (při 20°C) ..... no data available
- e. Melting point / freezing point ..... no data available
- f. Initial boiling point and boiling range (°C) ..... no data available
- g. Flash point (°C) ..... no data available
- h. Evaporation rate ..... no data available
- i. Flammability (solid, gas) ..... no data available
- j. Upper/lower flammability or explosive limits ..... no data available
- k. Vapour pressure (hPa) ..... no data available
- l. Vapour density ..... no data available
- m. Relative density (kg.m-3) ..... no data available
- n. Water solubility ..... no data available
- o. Partition coefficient: n- octanol/water ..... no data available
- p. Autoignition temperature (°C) ..... no data available
- q. Decomposition temperature (°C) ..... no data available
- r. Viscosity ..... no data available
- s. Explosive properties ..... no data available
- t. Oxidizing properties ..... no data available

## 10 Stability and reactivity

Under normal conditions of use and storage the mixture is stable.

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Avoid exposure to heat of solar radiation

### 10.5 Incompatible material

Heavy Metals, strong oxidizing agents and strong acids

### 10.6 Hazardous decomposition products

Nitrogen oxide and carbon

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### 11 Toxicological information

#### 11.1 Acute toxicity

Human oral LD<sub>50</sub> (g.kg<sup>-1</sup>)..... not applicable  
Rat oral LD<sub>50</sub> (g.kg<sup>-1</sup>)..... not applicable  
Rat inhalation LD<sub>50</sub> (g.kg<sup>-1</sup>) ..... not applicable  
Rat inhalation TLS (g.kg<sup>-1</sup>) ..... not applicable

#### 11.2 Skin corrosion/irritation

Not applicable.

#### 11.3 Serious eye damage/eye irritation

Not applicable.

#### 11.4 Respiratory or skin sensitization

Not applicable.

#### 11.5 Germ cell mutagenicity

Not applicable.

#### 11.6 Carcinogenicity

Not applicable.

#### 11.7 Reproductive toxicity

Not applicable.

#### 11.8 Specific target organ toxicity - single exposure

Not applicable.

#### 11.9 Specific target organ toxicity - repeated exposure

Not applicable.

#### 11.10 Aspiration hazard

Not applicable.

### 12 Ecological information

#### 12.1 Ecotoxicity

Waste water

LC<sub>50</sub> 96 hrs, fish (mg.kg<sup>-1</sup>) ..... not applicable  
EC<sub>50</sub> 48 hrs, daphnia (mg.kg<sup>-1</sup>) ..... not applicable  
IC<sub>50</sub> 72 hrs algae (mg.kg<sup>-1</sup>) ..... not applicable  
CHSK ..... not applicable  
BSK<sub>5</sub>..... not applicable

#### 12.2 Persistence and degradability

Not applicable.

#### 12.3 Bioaccumulative potential

Not applicable.

#### 12.4 Mobility in soil

Not applicable.

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### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

Not applicable.

## 13 Disposal considerations

### 13.1 Waste treatment methods

Dispose of in compliance with applicable regulations for hazardous waste management. Incinerate residues of the mixture in a hazardous waste incinerator.

Contaminated packaging must be treated as hazardous waste. Dispose of by incinerating in a hazardous waste incinerator.

## 14 Transport information

Not governed by regulations for transport of dangerous goods (ADR).

### 14.1 UN number

ADR/RID:

IMDG:

IATA:

### 14.2 UN proper shipping name

ADR/RID:

IMDG:

IATA:

### 14.3 Transport hazard class(es)ADR/RID:

IMDG:

IATA:

### 14.4 Packaging group

ADR/RID:

IMDG:

IATA:

### 14.5 Environmental hazards

ADR/RID:

IMDG:

IATA:

### 14.6 Special precautions for user

No data available

## 15 Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### 15.2 Chemical Safety

no data available

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### 16 Further information

#### List of R-phrases

- R 11 Highly flammable.
- R 22 Harmful if swallowed.
- R 28 Very toxic if swallowed.
- R 32 Contact with acids liberates very toxic gas.
- R 35 Causes severe burns.
- R 36 Irritating to eyes.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 37 Irritating to respiratory system.

#### List of H-phrases:

- H314 Causes severe skin burns and eye damage.
- H225 Highly flammable liquid and vapour.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H300 Fatal if swallowed.
- H410 Very toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H335 May cause respiratory irritation
- H302 Harmful if swallowed.
- EUH032 Contact with acids liberates very toxic gas.

#### List of P-phrases:

- P273 Avoid release to the environment.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P501 Dispose of contents/ container to an approved waste disposal plant.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### List of S-phrases:

- S 28 After contact with skin, wash immediately with plenty of soap and water.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 60 This material and its container must be disposed of as hazardous waste.
- S 61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 37/39 Wear suitable gloves and eye/face protection.
- S 36 Wear suitable protective clothing.
- S 7 Keep container tightly closed.
- S 16 Keep away from sources of ignition - No smoking.
- S 24/25 Avoid contact with skin and eyes.



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### Training instructions

Workers who come into contact with hazardous materials shall be acquainted by the organization, to a necessary extent, with the effects of these substances, with the methods how to treat them, with protective measures, the principles of first aid, necessary sanitation procedures and procedures for liquidation of failures and accidents. Under Article 35 of the European Parliament and Council Regulation (EC) No. 1907/2006, the employer must enable employees or their representatives access to information from the safety data sheet of the substance or mixture the worker uses or the effects of which can be exposed to during his/her work.

### Recommended restrictions on use

The mixture is intended for professional use. It should not be used for purposes other than those listed under 1.2.

### Further information

Information given is based on our best knowledge and is intended to describe the product for the purposes of safety of transporting and handling only. It should not be therefore construed as guaranteeing any specific property of the product. It is the responsibility of the user to observe all current regulations and consider recommendations on the use of application of product.

### Declaration

*The safety data sheet contains basic data corresponding to the present state of our knowledge and experience, in accordance with applicable regulations. The foregoing information was gathered with the utmost care, but that does not mean that it is complete and should be used as the only correct information. Erba Lachema s.r.o. is not responsible for any damages caused by improper use and handling of the mixture.*