

Safety Data Sheet

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

Date of issue: 2.3.2016

Date of review: 7.6.2016

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Version: 1.1

Name of the mixture: **ERBA HYPOCLEAN**

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

1.1 Product identifier

Pack Name	ERBA HYPOCLEAN
Cat. No.	50004376
Reagent 1	1×1 l

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

Erba Hypoclean cleaning solution is a stabilized and micro-filtered concentrated hypochlorite solution for intensive cleaning, rinsing and washing of hematology analyzers' capillaries, tubing and chambers, removing blood component precipitates and lipoprotein deposits on ELite hematology analyzers.

1.3 Details of the supplier of the safety data sheet

Name of manufacturer: Erba Lachema s.r.o.
 Place of business: Brno, Karásek 1d, postcode 621 00, CZ
 ID no: 26918846
 Phone: +420 517 077 111
 E-mail: msds@erbamannheim.com

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*)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Reagent 1

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315

Eye Irrit. 2 H319

For a full text of H-statements see Section 16.

2.2 Label elements

Reagent 1



Pictogram:

Signal word: Warning

Hazard-determining components of labelling:

Sodium hydroxide

Hazard statement(s):

H315 Causes skin irritation.

H319 Causes serious eye irritation.

EUH031 Contact with acids liberates toxic gas.

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Precautionary statement(s):

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Mixture or components are not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

The product is a mixture.

3.2 Mixtures

Reagent 1 contains following hazardous substances:

Substance name	Content (% of weight)	CAS number EC number Index number Reg. number	Specific Concentration limits, M-factors	Classification according to 1272/2008	
Sodium hydroxide*	<0.5	1310-73-2 215-185-5 011-002-00-6 -	Skin Corr. 1A; H314: ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %	Skin Corr. 1A	H314
Sodium hypochlorite, solution 12.3 % Cl active	<1.0	7681-52-9 231-668-3 017-011-00-1 01-2119488154-34-0031	-	Skin Corr. 1B Aquatic Acute 1	H314 H400

*) Substance with exposure limits (exposure limits are listed in Section 8.1)

For a full text of H-statements see Section 16

SECTION 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.

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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

Irritation effect to eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

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

5.1 Extinguishing media

For the mixture no limitations of extinguishing media are given.

5.2 Special hazards arising from the substance or mixture

Fire may liberate toxic fumes.

5.3 Advice for firefighters

Wear protective clothing. Use a breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Due to amount of chemical substances in a mixture, an impact on the environment is not expected.

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 Section 13.

6.4 Reference to other sections

See section 7, 8 and 13.

SECTION 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 Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry and covered stores in tightly closed containers at a temperature between +15 °C and +30 °C.

7.3 Specific end use(s)

The kit is designed for *in vitro* diagnostic devices.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Control parameters according to Government Decree No 361/2007 Coll.

CAS	Substance name	PEL	NPK-P	Note	Conversion factor for ppm
		mg/m ³	mg/m ³		
1310-73-2	Sodium hydroxide	1	2	I	–

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; I - causes irritation of mucous membranes (eyes, respiratory system), resp. skin. - the physico-chemical properties (e.g. explosiveness) are taken into account for NPK-P.*

Exposure limit values in the workplace are not defined according to Directive No 2006/15/EC.

Limit values for indicators of biological exposure tests are not defined according to Decree No 432/2003 Coll.

8.2 Exposure controls

Appropriate engineering controls

Adequate ventilation.

Personal protective equipment

a. Eye/face protection

Safety goggles.

b. Hand protection

Protective gloves - rubber, resistant to caustic substances.

c. Skin protection

Protective clothing.

d. Respiratory protection

Not required.

e. Thermal hazards

None known.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Reagent 1

- a. Appearance Liquid
- b. Odour Chlorine odour
- c. Odour threshold Information not available
- d. pH (at 20 °C) Information not available
- e. Melting point/freezing point Information not available
- f. Initial boiling point and boiling range (°C) Information not available
- g. Flash point (°C) Information not available
- h. Evaporation rate Information not available

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Name of the mixture: **ERBA HYPOCLEAN**

- i. Flammability (solid, gas) Information not available
- j. Upper/lower flammability or explosive limits Information not available
- k. Vapour pressure (hPa) Information not available
- l. Vapour density Information not available
- m. Relative density (g cm⁻³) Information not available
- n. Water solubility Information not available
- o. Partition coefficient: n-octanol/water Information not available
- p. Autoignition temperature (°C) Information not available
- q. Decomposition temperature (°C) Information not available
- r. Viscosity Information not available
- s. Explosive properties Information not available
- t. Oxidizing properties Information not available

9.2 Other information

None.

SECTION 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

The mixture is stable at normal temperature and pressure.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

Toxic gas in contact with acids.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****a) Acute toxicity**

Based on available data, the classification criteria are not met.

b) Skin corrosion/ irritation

Causes skin irritation.

c) Serious eye damage/ irritation

Causes serious eye irritation.

d) Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

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Name of the mixture: **ERBA HYPOCLEAN****e) Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

f) Carcinogenicity

Based on available data, the classification criteria are not met.

g) Reproductive toxicity

Based on available data, the classification criteria are not met.

h) STOT – single exposure

Based on available data, the classification criteria are not met.

i) STOT – repeated exposure

Based on available data, the classification criteria are not met.

j) Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1 Toxicity**

The mixture is not classified as toxic to the environment.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The product does not have the properties of PBT and vPvB. Assessment based on the ingredients that do not have properties of PBT and vPvB.

12.6 Other adverse effects

There is no information about any special danger for environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Dispose of in compliance with applicable regulations for hazardous waste management. Do not drain into the wastewater. The mixture should be discarded as a laboratory waste. Incinerate residues of the mixture in a hazardous waste incinerator. Contaminated packaging must be treated as hazardous waste.

Waste code	15 01 10	packaging containing residues of or contaminated by dangerous substances
	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

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Name of the mixture: **ERBA HYPOCLEAN****SECTION 14: Transport information**

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

14.1 UN number

Not specified.

14.2 UN proper shipping name

ADR/RID: –

IMDG: –

ICAO/IATA: –

14.3 Transport hazard class(es)

ADR/RID: –

IMDG: –

ICAO/IATA: –

14.4 Packing group

ADR/RID: –

IMDG: –

ICAO/IATA: –

14.5 Environmental hazards

The mixture is not hazardous to the environment during transport.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not transported.

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

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP).

15.2 Chemical safety assessment

Assessment was not carried out.

SECTION 16: Other information**List of H-statements**

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

EUH031 Contact with acids liberates toxic gas.

Recommended restrictions on use

This compound is designed for professional use. It should not be used for purposes other than those described in Section 1.2.

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Name of the mixture: **ERBA HYPOCLEAN****Information about data sources used to compile the Safety Data Sheet**

Material Safety Data Sheets of raw material suppliers, ECHA (European Chemicals Agency), corporate documentation for products.

Added or modified information (compared to the last version of the safety data sheet)

1.1 07. 06. 2016 Change of e-mail adress (chapter 1.3)
Change of chapters 3.1 and 3.2
Added registration number of sodium hypochlorite solution (table 3.2)

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.