

**Safety Data Sheet**

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

Date of issue: 13.05.2015

Date of review:

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Version: 1.0

Name of the mixture: Reagent for PHENYLALANINE test

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Reagent for PHENYLALANINE test	
Pack Name	Reagent for PHE
Cat. No.	10003370
Reagent for PHE	1×18 ml

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

The kit serves for colour expression of MIKRO-LA-TEST<sup>®</sup> used for the detection of phenylalanine deaminase.

**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@erbalachema.com](mailto:msds@erbalachema.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 for PHE

**Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315

Eye Dam. 1 H318

**Classification according to 67/548/EEC or 1999/45/EC**

Xn R38-41

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

**2.2 Label elements**

Reagent for PHE



Pictogram:

Signal word: Danger

Hazard-determining components of labelling:

Ferric chloride

Hazard statement(s):

H315 Causes skin irritation.

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H318 Causes serious eye damage.

Precautionary statement(s):

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/shower.

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

Reagent for PHE weight is not classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

The product is a mixture.

### 3.2 Mixtures

Reagent pro PHE contains following hazardous substances:

Substance name	Content (% of weight)	CAS number EC number Index number	Classification according to		
			67/548/EEC	1272/2008	
Ferric chloride hexahydrate	10	10025-77-1 231-729-4 -	Xn; R22 Xi; R38-41	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1	H302 H315 H318

For a full text of R-phrases and 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

After contact with skin, wash immediately with soap and water. Consult a physician.

#### 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, and do not induce vomiting.

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

Irritant effects, nausea, vomiting, cardiovascular disorder, risk of serious damage to eyes. Toxic effect on liver and kidneys.

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

No information available.

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**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 limitation of extinguishing agents are given.

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

Ambient fire may liberate hazardous vapours.

**5.3 Advice for firefighters**

Prevent fire extinguishing water from leakage into sewage system. Use self contained breathing apparatus. Wear suitable protective clothing.

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

Isolate and mark the spill site, order all the people out of the place, who do not participate in the rescue work. Remove all possible sources of ignition, turn off vehicle engines, do not smoke and avoid open flames, use non-sparking tools and lamps. Use all recommended personal protective equipment during rescue work.

**6.2 Environmental precautions**

Do not discharge into the drains, surface waters and 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 Section 13. Sweep solid reagent and store 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 at a temperature between +2 °C and +25 °C.

**7.3 Specific end use(s)**

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

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

**Control parameters** are not defined according to Government Decree No 361/2007 Coll.

**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.

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### 8.2 Exposure controls

#### Appropriate engineering controls

Sufficient 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 with adequate ventilation, otherwise breathing apparatus.

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 for PHE

- |   |                            |
|---|----------------------------|
| a. Appearance .....                                   | Clear yellow-orange liquid |
| b. Odour .....  | Odourless                  |
| c. Odour threshold .....                              | Information not available  |
| d. pH (at 20 °C) .....                                | 4–5                        |
| 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  |
| 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 (kg m <sup>-3</sup> ) .....       | 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.

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**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**

Risk of explosion with alkali metals and ethylene oxide.

**10.4 Conditions to avoid**

Strong heating.

**10.5 Incompatible materials**

Metals (steel, copper).

**10.6 Hazardous decomposition products**

No data available.

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

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

**b) Irritability**

Reagent for PHE causes irritation to skin.

**c) Corrosion**

Reagent for PHE causes serious eye damage.

**d) Sensitization**

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

**e) Repeated dose toxicity**

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

**f) Carcinogenicity**

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

**g) Mutagenicity**

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

**h) Reproductive toxicity**

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 environmental.

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**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

**SECTION 14: Transport information****14.1 UN number**

UN 2582

**14.2 UN proper shipping name**

ADR/RID:	FERRIC CHLORIDE SOLUTION
IMDG:	FERRIC CHLORIDE SOLUTION
ICAO/IATA:	FERRIC CHLORIDE SOLUTION

**14.3 Transport hazard class(es)**

ADR/RID:	8
IMDG:	8
ICAO/IATA:	8

**14.4 Packing group**

ADR/RID:	III
IMDG:	III
ICAO/IATA:	III

**14.5 Environmental hazards**

The mixture is not hazardous to the environment during transport.

**14.6 Special precautions for user**

ADR/RID:	Tunnel restriction code E
IMDG:	EmS F-A S-B
ICAO/IATA:	No

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**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, P-statements and R-phrases**

H-statements: H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

P-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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

R-phrases: R22 Harmful if swallowed.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.

**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.

**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

*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.*