

Safety Data Sheet

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

Date of issue: 19.05.2015

Date of review:

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Version: 1.0

Name of the mixture: Reagent for PHOSPHATASE test

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

1.1 Product identifier

Reagent for PHOSPHATASE test	
Pack Name	Reagent for PHS
Cat. No.	10003374
Reagent 1	1×18 ml

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

The kit Reagent for PHOSPHATASE test is supplementary preparation for diagnostic kits MIKRO-LA-TEST[®] containing the test for the demonstrativ of phosphatase and serving for the colour expression of this reaction.

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

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

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

Xi R36/38

For a full text of R-phrases and 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.

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H319 Causes serious eye irritation.

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

Reagent 1 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 1 contains following hazardous substances:

Substance name	Content (% of weight)	CAS number EC number Index number	Classification according to		
			67/548/EEC	1272/2008	
Sodium hydroxide*	1.0	1310-73-2 215-185-5 011-002-00-6	C; R35	Skin Corr. 1A	H314

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

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.

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, and do not induce vomiting. Seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

No data 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

No limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

When burning, reagent may generate dangerous gases.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear 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

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 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 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	–

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

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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

Not required.

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.

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 | Colourless liquid |
| b. Odour | Odourless |
| c. Odour threshold | Information not available |
| d. pH (at 20 °C) | 12 |
| 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 ⁻³) | Information not available |
| n. Water solubility | Soluble |
| 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 | Not explosive |
| t. Oxidizing properties | None |

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9.2 Other information

May be corrosive to metals.

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

Violent reactions with metals, light metals, ammonia. Exothermic reaction with acids.

10.4 Conditions to avoid

Not known.

10.5 Incompatible materials

Metals, light metals

10.6 Hazardous decomposition products

Reaction with acids gives hydrogen.

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 1 causes irritation to skin and eyes.

c) Corrosion

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

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.

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SECTION 12: Ecological information**12.1 Toxicity**

The mixture is not classified as toxic to environmental.

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

Harmful effect due to pH shift.

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 1824

14.2 UN proper shipping name

ADR/RID: SODIUM HYDROXIDE SOLUTION

IMDG: SODIUM HYDROXIDE SOLUTION

ICAO/IATA: SODIUM HYDROXIDE 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.

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14.6 Special precautions for user

ADR/RID: Tunnel restriction code E

IMDG: EmS F-A S-B

ICAO/IATA: No

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: H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

P-statements: 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.

R-phrases: R35 Causes severe burns.
R36/38 Irritating to eyes and skin.

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.