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

1.1 Product identifier

<table>
<thead>
<tr>
<th>Pack Name</th>
<th>XL WASH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat. No.</td>
<td>XSYS0066</td>
</tr>
<tr>
<td>Reagent 1</td>
<td>4x100 ml</td>
</tr>
</tbody>
</table>

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

The sets are designed for Health Service laboratories for washing instrument cuvettes. The mixture is intended for professional use.

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

The reagent 1 of the kit is classified as hazardous according to EU Directives 1272/2008/EC.

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

Pictogram:

Signal word: Warning
Hazard-determining components of labelling:
Sodium hydroxide

Hazard statement(s):
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statement(s):
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
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
XL WASH contains following dangerous substances:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Content (% of weight)</th>
<th>CAS number</th>
<th>EC number</th>
<th>Index number</th>
<th>Classification according to 67/548/EEC</th>
<th>1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene glycol dodecyl ether</td>
<td>0.25–1 %</td>
<td>9002-92-0</td>
<td>500-002-6</td>
<td></td>
<td>Xi; R41</td>
<td>H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N; R50</td>
<td>H400</td>
</tr>
<tr>
<td>Sodium hydroxide*</td>
<td>0.5–1 %</td>
<td>1310-73-2</td>
<td>215-185-5</td>
<td>011-002-00-6</td>
<td>C; R35</td>
<td>H314</td>
</tr>
</tbody>
</table>

*) 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, 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, and do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Dermatitis, dry skin, corneal opacity, risk ofblindness.

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

Unsuitable extinguishing media:
For mixture no unsuitable extinguishing media are known.

5.2 Special hazards arising from the substance or mixture
When burning, reagent may generate dangerous fumes of nitrogen oxides.

5.3 Advice for firefighters
Avoid release of extinguishing media into drains. Use 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. 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 +15 °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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Substance name</th>
<th>PEL mg/m³</th>
<th>NPK-P mg/m³</th>
<th>Note</th>
<th>Conversion factor for ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-73-2</td>
<td>Sodium hydroxide</td>
<td>1</td>
<td>2</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

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

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

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
a. Appearance ........................................ Clear colourless liquid
b. Odour .............................................. Odourless
c. Odour threshold .................................. Information not available
d. pH (at 20 °C) ..................................... 13
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) .......................... 1 056
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

Not known.

10.4 Conditions to avoid

Avoid exposure to heat of solar radiation.

10.5 Incompatible materials

Heavy metals, strong oxidizing agents and strong acids.

10.6 Hazardous decomposition products

None

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

The mixture is classified as irritating to skin. It causes serious eye irritation.

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.
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
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

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, P-statements and R-phrases

H-statements:
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

P-statements:
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- 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.
- R41 Risk of serious damage to eyes.
- R50 Very toxic to aquatic organisms.

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.