Safety Data Sheet  

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Date of review:  
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Version: 1

Name of the mixture: **IMMUNOGLOBULIN M**

1  Identification of the substance/mixture and company/undertaking

1.1  Product identifier

<table>
<thead>
<tr>
<th><strong>IMMUNOGLOBULIN M</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>IgM</td>
</tr>
<tr>
<td><strong>Catalog Number</strong></td>
<td>BLT20028</td>
</tr>
<tr>
<td><strong>Reagent 1</strong></td>
<td>5 x 25 ml</td>
</tr>
<tr>
<td><strong>Reagent 2</strong></td>
<td>1 x 10 ml</td>
</tr>
<tr>
<td><strong>Calibrator</strong></td>
<td>1 x 1 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 determination of Immunoglobulin M 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: filka@erbalachema.com
- 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 **Immunoglobulin M 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 reagents contain the following hazardous substances:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Content (% of weight)</th>
<th>CAS number</th>
<th>EC number</th>
<th>Classification according to (EC) No. 67/548 EEC</th>
<th>Classification according to (EC) No. 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide*</td>
<td>&lt; 0.1</td>
<td>26628-22-8</td>
<td>247-852-1</td>
<td>T+; N; R 28-32-50/53; S 28-45-60-61</td>
<td>Acute Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H300, H400, H410; P273, P501, EUH032</td>
</tr>
</tbody>
</table>

*) 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

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
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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.

<table>
<thead>
<tr>
<th>CAS</th>
<th>Substance name</th>
<th>PEL</th>
<th>NPK-P</th>
<th>Note</th>
<th>Conversion factor for ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>26628-22-8</td>
<td>Sodium azide</td>
<td>0.1 mg/m³</td>
<td>0.3 mg/m³</td>
<td>D</td>
<td>0.376</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; * - 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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Substance name</th>
<th>Limit values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>26628-22-8</td>
<td>Sodium azide</td>
<td>0.1 mg/m³, 0.3 ppm</td>
<td>skin</td>
</tr>
</tbody>
</table>

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.
### 8 Exposure controls

#### 8.2 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 liquid
b. Odour........................................ odourless
c. Odour Threshold........................................ no data available
d. pH (pH 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

**Reagent 2**

a. Appearance................................. Clear colorless liquid
b. Odour........................................ odourless
c. Odour Threshold........................................ no data available
d. pH (pH 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

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No data Available
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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

Calibrator

a. Appearance.............................. Clear colorless liquid
b. Odour........................................ odourless
c. Odour Threshold .............................. no data available
d. pH (pH 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
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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

### 11 Toxicological information

#### 11.1 Acute toxicity
- Human oral LD$_{50}$ (g.kg$^{-1}$) not applicable
- Rat oral LD$_{50}$ (g.kg$^{-1}$) not applicable
- Rat inhalation LD$_{50}$ (g.kg$^{-1}$) not applicable
- Rat inhalation TLS (g.kg$^{-1}$) 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$_{50}$ 96 hrs, fish (mg.kg$^{-1}$) not applicable
- EC$_{50}$ 48 hrs, daphnia (mg.kg$^{-1}$) not applicable
- IC$_{50}$ 72 hrs algae (mg.kg$^{-1}$) not applicable
- CHSK not applicable
- BSK not applicable

#### 12.2 Persistence and degradability
Not applicable.
12.3 Bioaccumulative potential
Not applicable.

12.4 Mobility in soil
Not applicable.

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.
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety
no data available

16 Further information

List of R-phrases
R 28 Very toxic if swallowed.
R 32 Contact with acids liberates very toxic gas.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of H-phrases:
H400 Very toxic to aquatic life.
H300 Fatal if swallowed.
H410 Very toxic to aquatic life with long lasting effects.
EUH032 Contact with acids liberates very toxic gas.

List of P-phrases:
P273 Avoid release to the environment.
P501 Dispose of contents/ container to an approved waste disposal plant.

List of S-phrases:
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 28 After contact with skin, wash immediately with plenty of soap and water.

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.