# SAFETY DATA SHEET

## I – COMPANY AND PRODUCT IDENTIFICATION

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>SEBIA</td>
</tr>
<tr>
<td>Address</td>
<td>Parc Technologique Léonard de Vinci - Rue Léonard de Vinci CP 8010 Lisses 91008 EVRY CEDEX - FRANCE</td>
</tr>
<tr>
<td>Phone Number</td>
<td>33.(0)1.69.89.80.80</td>
</tr>
<tr>
<td>Fax Number</td>
<td>33.(0)1.69.89.78.78</td>
</tr>
<tr>
<td>e-mail</td>
<td><a href="mailto:sebia@sebia.com">sebia@sebia.com</a></td>
</tr>
<tr>
<td>Product Name</td>
<td>CAPILLARYS HEMOGLOBIN(E)</td>
</tr>
<tr>
<td>Product Reference</td>
<td>2007</td>
</tr>
<tr>
<td>Type of Product</td>
<td>For in vitro diagnostic use</td>
</tr>
<tr>
<td>Labeling</td>
<td>CORROSIVE</td>
</tr>
<tr>
<td>Emergency Call Number</td>
<td>33.(0)1.45.42.59.59 (ORFILA : list of anti-poison centers in France)</td>
</tr>
</tbody>
</table>

## II – KIT CONTENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPILLARYS HEMOGLOBIN(E) buffer</td>
<td>SDS/CIA/SEB/0124</td>
</tr>
<tr>
<td>CAPILLARYS HEMOGLOBIN(E) hemolysing solution</td>
<td>SDS/CIA/SEB/0470</td>
</tr>
<tr>
<td>CAPILLARYS wash solution</td>
<td>SDS/CIA/SEB/0461</td>
</tr>
</tbody>
</table>

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SDS established according to European Directive 2001/58/EC amending for the second time European Directive 91/155/EEC

Revised on: 2007.07.25
SAFETY DATA SHEET
CAPILLARYS HEMOGLOBIN(E) BUFFER

I - IDENTIFICATION OF THE PREPARATION:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAPILLARYS HEMOGLOBIN(E) Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Call Number</td>
<td>01.45.42.59.59 (ORFILA: List of anti-poison centers in France).</td>
</tr>
</tbody>
</table>

II - HAZARDS IDENTIFICATION:

- No specific hazard.
- Eye-irritating in case of splash.

Main Symptoms:
- Eye irritation.

III - COMPOSITION / INFORMATION ON INGREDIENTS:

Hazardous Components:

No components requiring hazard classification for current concentrations.

IV - FIRST AID MEASURES:

- No volatile compound.
- Wash with water.
- Immediately wash with water or with a 0.9% sodium chloride solution for at least 15 minutes, taking care to keep eyelids open with your fingers for efficient rinsing.
- In case of significant ingestion, seek medical advice.

V - FIRE-FIGHTING MEASURES:

- Not flammable.
- In case of contact with fire, use the following fire extinguishing products:
  - All usual products.
- Protection of rescuers:
  - Wear protective clothing to avoid any contact with the skin or eyes.
  - Wear a self-contained breathing apparatus for protection against fumes.

VI - ACCIDENTAL RELEASE MEASURES:

- In case of spillage on floor or on working tables, wipe out with inert absorbent material.
- Wash with water and soap.
- Avoid contact with eyes.

VII - HANDLING AND STORAGE:

- Store in cool place.

VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION:

- Observe safety instructions concerning handling of chemicals.
- Wear waterproof protective gloves.
- Wash your hands after handling.
- Do not eat or drink on the handling site.

IX - PHYSICAL AND CHEMICAL PROPERTIES:

<table>
<thead>
<tr>
<th>Physical status</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Colorless.</td>
</tr>
<tr>
<td>Smell</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Concentrated solution pH</td>
<td>≈ 9.4</td>
</tr>
<tr>
<td>Solubility</td>
<td>Mixable in water in all proportions.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>≈ 100 °C.</td>
</tr>
</tbody>
</table>
X - STABILITY AND REACTIVITY:

**Stability**: Stable under recommended operating conditions.

**Incompatibility**: - Powerful oxidizing agents.
- Metals.

**Hazardous decomposition products:**

By thermal decomposition after desiccating:
- Carbon and nitrogen oxides.

XI - TOXICOLOGICAL INFORMATION:

**Acute Effects**: - Possible eye irritation in case of splash.

**Chronic Effects**: - Renal diseases.

**Target Organs**: - Kidneys.

**MAK Value**: No release of volatile substances at the specified operating temperature.

**LD**: - Undetermined.

XII - ECOLOGICAL INFORMATION:

- The product is mainly found in aquatic environment.
- Biodegradable and not bioaccumulable.
- Not remanent.
- No toxicity at predictable concentrations in the environment.

XIII - DISPOSAL CONSIDERATIONS:

- May be discharged into sewers after dilution.
- Avoid discharging concentrated substance into sewers.
- Keep waste in closed containers provided for this purpose.
- Destruction by incineration with combustion gas cleaning under conditions allowed by applicable regulations.
- The empty bottles must be properly disposed of by an authorized agency.

XIV - TRANSPORT INFORMATION:

At concentrations used, no component requires hazard classification according to the regulations for air (OACI/IATA), sea (OMI/IMDG), road (ADR), rail (RID) or fluvial transports.

XV - REGULATORY INFORMATION:

**Labeling**: Not Applicable.

**WARNING**: Please refer to and follow all local and national regulations regarding disposal.

XVI - OTHER INFORMATION:

**MAK**: Maximum concentration permissible in air on the working site (German Legislation).

For use, storage and disposal of this reagent, personnel are to be trained specifically for GLP (Good Laboratory Practices).

GLP describe all the laboratory operations including the handling of hazardous products.

The technical information used to compile this data sheet was obtained from INRS (Institut National de Recherche et de Sécurité - France).

Regulatory information was obtained from French and European Communities Official Journals.

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SAFETY DATA SHEET
CAPILLARYS HEMOGLOBIN(E) HEMOLYZING SOLUTION

I - IDENTIFICATION OF THE PREPARATION:

Name: CAPILLARYS HEMOGLOBIN(E) hemolyzing Solution
Emergency Call Number: 01.45.42.59.59 (ORFILA: List of anti-poison centers in France).

II - HAZARDS IDENTIFICATION:

Main Hazards:  
- Eye-irritating in case of splash.
- In case of prolonged contact, skin irritation.

Main Symptoms:  
- Erythema.

III - COMPOSITION / INFORMATION ON INGREDIENTS:

Hazardous Components:

No components requiring hazard classification for current concentrations.

IV - FIRST AID MEASURES:

Breathing: No volatile compound.
Skin Contact: Wash with water.
Eye Contact: Immediately wash with water or with a 0.9% sodium chloride solution for at least 15 minutes, taking care to keep eyelids open with your finders for efficient rinsing.
Ingestion: In case of significant ingestion, seek medical advice.

V - FIRE-FIGHTING MEASURES:

- Not flammable.
- In case of contact with fire, use the following fire extinguishing products:
  - Carbon dioxide.
  - Dry chemical powders or appropriate foam.
- Protection of rescuers:
  Wear protective clothing to avoid any contact with the skin or eyes.
  Wear a self-contained breathing apparatus for protection against fumes.

VI - ACCIDENTAL RELEASE MEASURES:

- In case of spillage on floor or on working tables, wipe out with inert absorbent material.
- Wash with water and soap.
- Avoid contact with skin, eyes, and breathing vapors in case of mixture with an acid.

VII - HANDLING AND STORAGE:

- Store in cool place.

VIII - EXPOSURE CONTROLS / INDIVIDUAL PROTECTION:

- Observe safety instructions concerning handling of chemicals.
- Wear waterproof protective gloves.
- Wear protective goggles.
- Wash your hands after handling.
- Do not eat or drink on the handling site.
IX - PHYSICAL AND CHEMICAL PROPERTIES:

Physical status : Liquid.
Color : Colorless.
Smell : Odorless.
Concentrated solution pH ≈ 8.7.
Solubility : Mixable in water in all proportions.
Boiling point : ≈ 100 °C.

X - STABILITY AND REACTIVITY:

Stability : Stable under recommended operating conditions.
Incompatibility : - Powerful oxidizing agents.
- Bare metals.

Hazardous decomposition products:

By thermal decomposition after desiccation:
- Carbon and nitrogen oxides.

XI - TOXICOLOGICAL INFORMATION:

Acute Effects : - Eye irritation.
- In high quantity, ingestion may cause gastro-intestinal troubles.

Chronic Effects : - Skin irritation in case of prolonged contact.

Target Organs : Unknown.

MAK Value : No release of volatile substances below the boiling point.

LD : Undetermined

XII - ECOLOGICAL INFORMATION:

- The product is mainly found in aquatic environment.
- Biodegradable and not bioaccumulable.
- No toxicity at predictable concentrations in the environment, although the decay products are more toxic than initial products.

XIII - DISPOSAL CONSIDERATIONS:

- Avoid discharging into sewers (in case of discharge into sewer, dilute with water).
- Keep waste in closed containers provided for this purpose.
- Destruction by incineration with combustion gas cleaning under conditions allowed by applicable regulations.
- The empty bottles must be properly disposed of by an authorized agency.

XIV - TRANSPORT INFORMATION:

At concentrations used, no component requires hazard classification according to the regulations for air (OACI/IATA), sea (OMI/IMDG), road (ADR), rail (RID) or fluvial transports.

XV - REGULATORY INFORMATION:

Labeling : Not Applicable.

WARNING : Please refer to and follow all local and national regulations regarding disposal.

XVI - OTHER INFORMATION:

MAK : Maximum concentration permissible in air on the working site (German Legislation).

For use, storage and disposal of this reagent, personnel are to be trained specifically for GLP (Good Laboratory Practices).

GLP describe all the laboratory operations including the handling of hazardous products.
The technical information used to compile this data sheet was obtained from INRS (Institut National de Recherche et de Sécurité - France).

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SAFETY DATA SHEET
CAPILLARYS / MINICAP WASH SOLUTION

I - IDENTIFICATION OF THE PREPARATION:

Name : CAPILLARYS / MINICAP Wash Solution
Emergency Call Number : 01.45.42.59.59 (ORFILA: List of anti-poison centers in France).

II - HAZARDS IDENTIFICATION:

Main Hazards : - Causes skin and mucosa burns.
- May cause serious eye injuries.

Main Symptoms : - Tissue necrosis in serious cases.
- Erythema and oedema in less serious cases.

III - COMPOSITION / INFORMATION ON INGREDIENTS:

Hazardous Components:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity (V/V)</th>
<th>CAS No.</th>
<th>Toxicity</th>
<th>Mentions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>&gt; 5 %</td>
<td>1310-73-2</td>
<td>C</td>
<td>R 35 S 26-37/39-45-53</td>
</tr>
</tbody>
</table>

IV - FIRST AID MEASURES:

Breathing : Keep out of the vapor area and breathe fresh air.
Skin Contact : Remove the contaminated clothing and immediately wash generously with water and soap.
Eye Contact : Immediately wash with water or with a 0.9% sodium chloride solution for at least 15 minutes, taking care to keep eyelids open with your fingers for efficient rinsing.
Seek medical advice from an ophthalmologist.
Ingestion : Seek medical advice.
If the victim is conscious, rinse the mouth.

V - FIRE-FIGHTING MEASURES:

- Unusual fire and explosions hazards.
- Emission of toxic and corrosive fumes when in contact with fire.
- In case of contact with fire, use the following fire extinguishing products:
  - Dry chemical powder.
  - Use water to cool down closed containers exposed to heat.
- The product reacts with some metals generating highly flammable hydrogen.
- Protection of rescuers:
  - Wear protective clothing to avoid any contact with the skin or eyes.
  - Wear a self-contained breathing apparatus for protection against fumes.

VI - ACCIDENTAL RELEASE MEASURES:

- Evacuate area.
- Protection of rescuers:
  - Wear protective clothing to avoid any contact with the skin or eyes.
  - Wear a self-contained breathing apparatus for protection against vapors.
- In case of spillage on floor or on working tables, recover with an absorbing inert material and place in closed containers for disposal.
- Ventilate area.
- Wash with water and soap.
- Avoid contact with skin and eyes.

VII - HANDLING AND STORAGE:

- Store in tight containers, in ventilated and cool place.
- Stainless steel materials, polyethylene or protected glass.
VIII - EXPOSURE CONTROLS / INDIVIDUAL PROTECTION:

- Observe safety instructions concerning handling of chemicals.
- Avoid any contact with skin, mucosa, eyes and clothing.
- Wear waterproof and strong base-resistant protective gloves.
- Wear protective goggles.
- For individuals with contact lenses and exposed to product vapors or mists, it is recommended to put glasses.
- Wear strong base-resistant protective clothing.
- Handle in a well ventilated room.
- Wash your hands after handling.
- Do not eat or drink on the handling site.

IX - PHYSICAL AND CHEMICAL PROPERTIES:

Physical status : Liquid slightly viscous.
Color : Colorless
Smell : Odorless.
Concentrated solution pH > 12.0.
Solubility : Mixable in water in all proportions.

X - STABILITY AND REACTIVITY:

Stability : Stable under recommended operating conditions.
Incompatibility : - Powerful oxidizing agents.
- Strong acids.
- Aluminium, zinc, copper, lead, tin, bronze, brass.
- Chlorinated solvents.
- Nitromethane and other nitro compounds of the same type.
- Some plastics and rubbers.

Hazardous decomposition products:

In case of partial combustion:
- Sodium oxide release.

XI - TOXICOLOGICAL INFORMATION:

Acute Effects : - Serious burns on tissues with which contact is made: mucosa, skin, eyes, etc.…
- In case of ingestion: metabolic acidosis and constant hyperleucocitosis.

Chronic Effects : - By breathing : spasms, inflammation and oedema to the upper respiratory tract and to lung tissue, chemical pneumonitis and pulmonary oedema.
- By ingestion : gastro-intestinal troubles.

Target Organe : - Wall of organs in contact.

MAK Value : 2 mg/m³
ACGIH Exposure Limit : 2 mg/m³
LD : LD 50 intraperitoneal administration mouse = 40 mg/kg
    LD 50 oral administration rabbit = 500 mg/kg

XII - ECOLOGICAL INFORMATION:

- The product is mainly found in aquatic environment.
- Sodium hydroxide is biodegradable and not bioaccumulable.
- No toxicity at predictable concentrations in the environment.
- When concentrated, alkalinity is a nuisance.
**XIII - DISPOSAL CONSIDERATIONS:**

- Do not discharging into sewers [in case of accidental discharge in sewer, dilute with a large quantity of water (at least 10 volumes of water for 1 volume of wash solution) or neutralize with an acid].
- Keep waste in closed and strong base-resistant containers provided for this purpose.
- Destruction by incineration with combustion gas cleaning under conditions allowed by applicable regulations.
- The empty bottles must be properly disposed of by an authorized agency.

**XIV - TRANSPORT INFORMATION:**

At concentrations used, no component requires hazard classification according to the regulations for air (OACI/IATA), sea (OMI/IMDG), road (ADR), rail (RID) or fluvial transports.

**XV - REGULATORY INFORMATION:**

<table>
<thead>
<tr>
<th>Labeling</th>
<th>C</th>
<th>R 35</th>
<th>S 2, 26, 27, 37/39</th>
</tr>
</thead>
</table>

**WARNING:** Please refer to and follow all local and national regulations regarding disposal.

**XVI - OTHER INFORMATION:**

- **Corrosive** C: Substances and preparations which may, on contact with living tissues, destroy them.


- ACGIH: American Conference of Governmental and Industrial Hygienists.
- MAK: Maximum concentration permissible in air on the working site (German Legislation).

For use, storage and disposal of this reagent, personnel are to be trained specifically for GLP (Good Laboratory Practices).

GLP describe all the laboratory operations including the handling of hazardous products.

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