W.F. Slide Proteus contain stained Proteus suspensions to detect specific agglutinating antibodies in serum.

Each sale code contains a bacterial suspension:

**BACTERIAL SUSPENSION**

- **BACTERIAL SUSPENSION of Proteus OX2**
- **BACTERIAL SUSPENSION of Proteus OX19**
- **BACTERIAL SUSPENSION of Proteus OXX** 1 x 3.2 mL

These mixtures are not classified according to Regulation 1272/2008. However, they contain substances classified as hazardous according to the Regulation and/or having occupational exposure limits for which it is required to develop of the material safety data sheet according to art. 31 of Regulation 1907/2006.

For these mixtures the material safety data sheet, prepared in accordance with EC regulations 1907/2006 and 453/2010, is available below.

Contents: Suspension of stained, killed bacteria at an optimized concentration for performance of the slide test. Contains sodium azide 0.09% as preservative.
1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIERS

Product name: FEBrILE ANTIgENS - BACTERIAL SUSPENSIONS

<table>
<thead>
<tr>
<th>Product number</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.F. SLIDE PROTEUS OX2</td>
<td>21300</td>
</tr>
<tr>
<td>W.F. SLIDE PROTEUS OX19</td>
<td>21302</td>
</tr>
<tr>
<td>W.F. SLIDE PROTEUS OXK</td>
<td>21304</td>
</tr>
</tbody>
</table>

Brand: DIESSE

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCES OR MIXTURE AND USES ADVISED AGAINST

Identified use: Professional use as laboratory reagents.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: DIESSE Diagnostica Senese SpA

Registered office: Via A. Solari 19 20144 Milan, Italy
Production plant: Via delle Rose, 10 – Loc. Tognazza 53035 Monteriggioni (SI), Italy
Tel: +39 02 4859121
Fax: +39 02 48008530
Tel: +39 0577 319560/61
Fax: +39 0577 318763

1.4 EMERGENCY TELEPHONE NUMBER

Emergency number: DIESSE Diagnostica Senese SpA
Tel: +39 0577 587143
e-mail: letiziarovai@diesse.it

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCES OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008:
The mixtures are not classified according to Regulation 1272/2008. However, they contain substances classified as hazardous according to the Regulation and/or having occupational exposure limits for which it is required to develop of the material safety data sheet according to art. 31 of Regulation 1907/2006.

Hazard statement:
None

Classification according to European Directive 67/548/EEC and 1999/45/EC:
The mixtures are not classified according to Directives 67/548/EEC and 1999/45/EC

R-phrases:
None

2.2 LABEL ELEMENTS

Pictograms: None
Signal word: None

Hazard statement(s): None
Precautionary statement(s): None

2.3 OTHER HAZARDS

None
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES
Not applicable

3.2 MIXTURES

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Classification</th>
<th>Directive</th>
<th>Regulation EC/1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide</td>
<td>0.09%</td>
<td>T+ R28 Acute Tox. 2</td>
<td>67/548/EEC</td>
<td>H300</td>
</tr>
<tr>
<td>Cas No 26628-22-8</td>
<td></td>
<td>N R50/53 Aquatic Acute 1</td>
<td></td>
<td>H400</td>
</tr>
<tr>
<td>EC No 247-852-1</td>
<td></td>
<td>R32 Aquatic Chronic 1</td>
<td></td>
<td>H410</td>
</tr>
<tr>
<td>Index No 011-004-00-7</td>
<td></td>
<td>EUH032</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substance with European exposure limit

The entire text of Hazard Statements and R-phrases is reported at Section 16 of the sheet.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES
General advice: Move the person from the exposure to open air. Consult a physician immediately and show this Material Safety Datasheet.

Skin contact: Wear off the contaminated clothes and wash with copious amounts of water.

Eye contact: If present, remove immediately contact lenses. Wash with plenty of water at least 15 minutes, keeping eyelids opened. Consult an oculist if the irritation persists.

Inhalation: Consult a physician.

Ingestion: Rinse mouth immediately and drink a copious amounts of water. Do not cause vomiting or emesis. Call a physician immediately.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS
No data available

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
No data available

5. FIREFIGHTING MEASURES

5.1 EXTINGUISH MEDIA
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Not Suitable extinguishing media: None

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
The mixture is not flammable, however in case of fire may release irritating and/or toxic gases (CO₂, CO, NOx, SOx, HCl).

5.3 ADVICE FOR FIREFIGHTERS
In case of fire wear self-contained breathing apparatus. Avoid that fire extinguishing water contaminates surface water and/or groundwater.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Keep people not involved in the intervention operations away. Avoid inhalation contact with vapors/aerosols. Ensure an adequate ventilation of the affected area. Do not handle damaged containers or the leaked product before wearing appropriate protective outfit.
6.2 **ENVIRONMENTAL PRECAUTIONS**

Avoid the contamination of surface water, soil and the dispersion in the air. Do not let product enter into drains. Discharge into the environment must be avoided.

6.3 **METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Contain the leakages with earth and sand. Collect the spilled material with mechanical means avoiding raising of dust and store it in suitable containers for disposal. Use water only to remove residuals, to avoid the danger of spill of product into the sewers.

6.4 **REFERENCE TO OTHER SECTIONS**

For further information see section 8 and 13

---

**7. HANDLING AND STORAGE**

7.1 **PRECAUTION FOR SAFE HANDLING**

Work in well ventilated areas and in the presence of ventilation systems or personal protective equipment. Do not inhale vapors or mists. Avoid contact with eyes and skin.

7.2 **CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Keep the containers tightly closed and labeled in a cool, well-ventilated area, away from heat sources and from direct sunlight. Keep the containers vertically avoiding the possibility of falls and leakage.

7.3 **SPECIFIC END USE**

None

---

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

8.1 **CONTROL PARAMETERS**

<table>
<thead>
<tr>
<th>Applicable exposure limits:</th>
<th>Description</th>
<th>Type</th>
<th>TWA/8h mg/m3</th>
<th>STEL/15min mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide*</td>
<td>D.Lgs 81/2008</td>
<td>0.1</td>
<td>0.3</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Skin

Other information: None

8.2 **EXPOSURE CONTROLS**

Work and handle according to the usual precautionary measures for handling chemicals.

Do not eat, drink or smoke while handling the product; wash hands thoroughly with soap and water before meals and after the work shift. Immediately remove all contaminated clothing.

**Appropriate engineering controls:**

Ensure an adequate ventilation of the working area.

**Personal Protective Equipment:**

The suggestions on the use of specific PPE are indicative. Their choice should be made according to the use of the product and the instructions given by the supplier of the device.

**Hand protections:**

Chemical-resistant gloves, compliant with EN 374.

Suitable material: nitrile rubber (thickness: 0.11 mm).

Gloves have to be checked by the user, before using.

Dispose the used gloves according to good laboratory practices and to law.

Clean and dry the hands after the use.

**Eye protections:**

Side Shields Safety Goggles compliant with EN 166

**Body protections:**

Work outfits.

**Respiratory protections:**

Based on the results of the risk assessment the use a full face mask with combined filter type AP (EN 14387) may be need.

8.3 **ENVIRONMENTAL EXPOSURE CONTROLS:**

Do not discard residuals in the environment. Discard the empty containers as hazardous waste.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not pertinent</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not pertinent</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not pertinent</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not pertinent</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limit</td>
<td>Not pertinent</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octano/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not pertinent</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2 OTHER SAFETY INFORMATION

None

### 10. STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

No data available

#### 10.2 CHEMICAL STABILITY

Stable under the recommended transport, handling and storage conditions

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available

#### 10.4 CONDITIONS TO AVOID

Avoid the strong heating of the mixture.

**Sodium azide:** Contact with acids liberates very toxic gas.

#### 10.5 INCOMPATIBLE MATERIALS

Agenti ossidanti forti ed agenti riducenti

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

When heated or in case of fire, vapors potentially dangerous to health may be produced.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

There is no information on toxicological effects of exposure to mixtures. These, however, might cause health effects in sensitive individuals.

In any case, it is recommended to handle them in accordance with the rules of good industrial hygiene.

<table>
<thead>
<tr>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin irritation/corrosion</td>
<td>No data available</td>
</tr>
<tr>
<td>Eye lesions/severe eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Mutagenicity for germ cells</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity for target organs (single and repeated exposures)</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazards in case of inhalation</td>
<td>No data available</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

12.1 TOXICITY
Use according to the good working practices, avoiding the disposal in the environment. In case the product reach waterways or sewers or contaminate soil or vegetation, inform the competent authorities.

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
No data available

12.6 OTHER ADVERSE EFFECTS
No data available

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
The product and its containers should be considered special waste. Their transport and disposal should be performed by authorized specialized companies according to the law.

14. TRANSPORT INFORMATION

Not hazardous good according to the transport regulations.

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
Hazard labeling under directives 1272/2008 (EC) and its subsequent amendments.

Legislative Decree 81/2008:
The use of this chemical entails the obligation of "Risk Assessment" by the employer in accordance with the provisions of the Decree April 9, 2008 n. 81 and subsequent amendments. Workers exposed to this chemical agent must not undergo health checks whether the results of the risk assessment show that, depending on the type and quantity of chemical agent and the method and frequency of exposure to this agent, there is only one "Low risk to the safety and irrelevant to the health" of the workers and the measures provided for in the same Decree are sufficient to reduce the risk

European Standard 1907/2006/EC:
Not applicable

Directive 96/82/EC (Seveso Directive):
Not applicable

15.2 CHEMICAL SAFETY ASSESSMENT
Not performed for the product

16. OTHER INFORMATION

This product has to be used for diagnostic use only by personnel who is qualified and trained on the hazards shown in this safety sheet.

Text of the hazard statements present at point 3
H300 Fatal if swallowed
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH 032 Contact with acids liberates very toxic gas

**Text of the Risk phrases present at point 3**
- R28  Very toxic if swallowed
- R32  Contact with acids liberates very toxic gas
- R50/53 Very toxic to aquatic organisms, May cause long term adverse effects in the aquatic environment

**REFERENCES:**
1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and technical adjustments
3. Regulation EC 1907/2006 of the European Parliament REACH as amended
4. Regulation EC 1272/2008 of the European Parliament CLP as amended
5. Commission Regulation EU 453/2010
7. The Merck Index.
8. Handling Chemical Safety
9. NIOSH Registry of Toxic Effects of Chemical Substances
10. INRS Fiche Toxicologique

**IESSE Diagnostica Senese SpA** declares that the information contained in this data sheet is based on the knowledge available to us on the date of the last version. Users must verify the suitability and accuracy of the provided information according to the specific use of the product. The document has not be accepted as a guarantee of any specific product property. Because of the use of this product is not subject to our direct control, the users, under their own responsibility, must observe the laws and regulations relating to health and safety. We accept no responsibility for improper use.

This data sheet supersedes each previous edition.