

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.0

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## 1. Identification

### Product identifier

Product name ImmunoEX™ Protein-Based Immunoassay Buffer (TBST)  
Product number IE03-50 / IE03-500  
Recommended use Biochemical reagent for research use only

### Details of the supplier of the safety data sheet

Manufacture / Supplier Energenesis Biomedical Co., Ltd.  
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## 2. Hazard(s) identification

**Classification of the substance or mixture** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**Label elements** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**Other hazards** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. Composition/information on ingredients

**Substance/mixture** Mixture

| CAS No.<br>EC No.<br>Index No. | Component Name<br>Synonyms           | 1272/2008 (CLP) | Percent |
|--------------------------------|--------------------------------------|-----------------|---------|
| 7647-14-5<br>231-598-3<br>—    | Sodium chloride                      |                 | 0.87    |
| 77-86-1<br>201-064-4<br>—      | Trometamol                           |                 | 0.6     |
| 9005-64-5<br>500-018-3<br>—    | Sorbitan monolaurate,<br>ethoxylated |                 | 0.05    |

**Additional information** For the full text of the H-Statements mentioned in this Section, see Section 16.

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## 4. First aid measures

### Description of first aid measures

|              |  |
|--------------|--|
| Eye Contact  | Flush eyes with water as a precaution  |
| Inhalation   | If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| Skin Contact | Wash off with soap and plenty of water.  |
| Ingestion    | Never give anything by mouth to an unconscious person. Rinse mouth with water              |

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

### Indication of any immediate medical attention and special treatment needed

No data available

## 5. Firefighting measures

### Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|------------------------------|--|

### Special hazards arising from the substance or mixture

No data available

### Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## 7. Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Recommended storage temperature: 2-8 °C

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|                            |   |
|----------------------------|---|
| <b>Specific end use(s)</b> | Apart from the uses mentioned in section 1 no other specific uses are stipulated. |
|----------------------------|---|

## 8. Exposure controls/personal protection

**Control parameters** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

| Component Name<br>CAS No. | PEL-TWA             | PEL-STEL | PEL-Ceiling         | BEIs |
|---------------------------|---------------------|----------|---------------------|------|
| Trometamol<br>77-86-1     | 5 mg/m <sup>3</sup> | —        | 5 mg/m <sup>3</sup> | —    |

### Exposure controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.  |
| Personal protective equipment    |   |
| Eye protection                   | Wear chemical safety goggles. An eye wash station must be available where this product is used.   |
| Skin and body protection         | Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  |
| Respiratory protection           | A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.   |
| Hand protection                  | Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available. |

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                           |
|---|---------------------------|
| Appearance  | Form: liquid Color: clear |
| Odour   | No data available         |
| Odour Threshold                                   | No data available         |
| pH  | 7.8-8.2                   |
| Melting point/freezing point                      | No data available         |
| Initial boiling point and boiling range           | No data available         |
| Flash point                                       | No data available         |
| Evaporation rate                                  | No data available         |
| Flammability (solid, gas)                         | No data available         |
| Lower and upper explosive (flammable) limits      | No data available         |
| Vapor pressure                                    | No data available         |
| Vapor density                                     | No data available         |
| Relative density                                  | No data available         |
| Solubility  | No data available         |
| Solubility in water                               | No data available         |
| Partition coefficient: n-octanol/ water (log Kow) | No data available         |
| Auto-ignition temperature                         | No data available         |
| Decomposition temperature                         | No data available         |

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Viscosity

No data available

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | No data available  |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.   |
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | No data available  |
| <b>Incompatible materials</b>             | No data available  |
| <b>Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11. Toxicological information

**Information on toxicological effects** No data available

Acute toxicity

| Component Name<br>CAS No. | Result                   | Species    | Dose                         | Exposure |
|---------------------------|--------------------------|------------|------------------------------|----------|
| Trometamol<br>77-86-1     | LD50 Dermal<br>LD50 Oral | Rat<br>Rat | >5,000 mg/kg<br>>5,000 mg/kg | —<br>—   |

|  |   |
|--|---|
| Skin corrosion/irritation                          | No data available   |
| Serious eye damage/eye irritation                  | No data available   |
| Respiratory or skin sensitisation                  | No data available   |
| Germ cell mutagenicity                             | No data available   |
| Carcinogenicity                                    | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Reproductive toxicity                              | No data available   |
| Specific target organ toxicity - single exposure   | No data available   |
| Specific target organ toxicity - repeated exposure | No data available   |
| Aspiration hazard                                  | No data available   |
| Additional Information                             | No data available   |

## 12. Ecological information

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Toxicity</b>                      | No data available |
| <b>Persistence and degradability</b> | No data available |
| <b>Bioaccumulative potential</b>     | No data available |
| <b>Mobility in soil</b>              | No data available |

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## Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Other adverse effects

No data available

## 13. Disposal considerations

### Waste treatment methods

|                        |  |
|------------------------|--|
| Product                | Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated packaging | Dispose of as unused product.  |

## 14. Transport information

|  |  |
|--|--|
| <b>IATA / ADR / RID / IMDG</b>   | Classified as dangerous in the meaning of transport regulations. |
| <b>UN number</b>   | —  |
| <b>UN proper shipping name</b>   | Not dangerous goods  |
| <b>Transport hazard class(es)</b>  | —  |
| <b>Packaging group</b>   | —  |
| <b>Environmental hazards</b>   | no   |
| <b>Special precautions for user</b>  | No data available  |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | No data available  |

## 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Chemical safety assessment

No data available

## 16. Other information

### Abbreviations

|      |   |
|------|---|
| ADR  | European Agreement Concerning the International Carriage of Dangerous Goods by Road |
| BEIs | Biological exposure indices   |
| IMDG | International Maritime Dangerous Goods  |
| IATA | International Air Transport Association-Dangerous Goods Regulations                 |

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|                            |  |
|----------------------------|--|
| CAS                        | Chemical Abstracts Service (division of the American Chemical Society)   |
| OSHA                       | Occupational Health and Safety Administration  |
| PEL                        | Permissible Exposure Limit   |
| RID                        | Regulations Concerning the International Carriage of Dangerous Goods by Rail   |
| STEL                       | Short Term Exposure Limit  |
| TWA                        | Time Weighted Average  |
| <b>Further information</b> | <p>Copyright 2025 Energenesis Biomedical Co., Ltd.. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Energenesis Biomedical Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.</p> |