

# Safety Data Sheet

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

Version: 2.4

Creation Date: 2006/01/01

Revision Date: 2026/07/06

## 1. Identification

### Product identifier

|                 |                                           |
|-----------------|-------------------------------------------|
| Product name    | VisPRO™ 5 Minutes Protein Stain Kit       |
| Product number  | VP01-125 / VP01-500 / VP05-125 / VP05-500 |
| Recommended use | Biochemical reagent for research use only |

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

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Manufacture / Supplier | Energenesis Biomedical Co., Ltd.                                           |
| Address                | 6F-3, No.21, Ln. 583, Ruiguang Rd., Neihu Dist.<br>Taipei City 114, Taiwan |
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**Emergency telephone number** +886-2-2627-0835

## 2. Hazard(s) identification

### Classification of the substance or mixture

|                   |       |
|-------------------|-------|
| Acute Tox. 4      | H302  |
| Skin Corr. 1C     | H314  |
| Eye Dam. 1        | H318  |
| Repr. 1B          | H360D |
| Aquatic Acute 1   | H400  |
| Aquatic Chronic 1 | H410  |

Classification according to Regulation (EC) No 1272/2008 [CLP]

### Label elements

Hazard pictogram

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word

Danger

Hazard statements

|       |                                                      |
|-------|------------------------------------------------------|
| H302  | Harmful if swallowed                                 |
| H314  | Causes severe skin burns and eye damage              |
| H318  | Causes serious eye damage                            |
| H360D | May damage the unborn child                          |
| H400  | Very toxic to aquatic life                           |
| H410  | Very toxic to aquatic life with long lasting effects |

Precautionary statements

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                   |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dusts or mists.                                            |
| P264 | Wash hand thoroughly after handling.                                      |

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|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P270               | Do not eat, drink or smoke when using this product.                                                                              |
| P273               | Avoid release to the environment.                                                                                                |
| P280               | Wear protective gloves/protective clothing.                                                                                      |
| P301 + P312        | IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.                                                                 |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P310               | Immediately call a POISON CENTER/doctor.                                                                                         |
| P363               | Wash contaminated clothing before reuse.                                                                                         |
| P391               | Collect spillage.                                                                                                                |
| P405               | Store locked up.                                                                                                                 |
| P501               | Dispose of contents/container in accordance with local/regional/national/international regulations.                              |

## 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

| Component  | Description                         | Content                                                                      |
|------------|-------------------------------------|------------------------------------------------------------------------------|
| Solution 1 | contains Imidazole                  | VP01-125: 125 mL<br>VP01-500: 500 mL<br>VP05-125: 125 mL<br>VP05-500: 500 mL |
| Solution 2 | contains Zinc sulphate heptahydrate | VP01-125: 125 mL<br>VP01-500: 500 mL<br>VP05-125: 125 mL<br>VP05-500: 500 mL |

| CAS No.<br>EC No.<br>Index No.        | Component Name<br>Synonyms    | 1272/2008 (CLP)                                                                            | Percent                                                   |
|---------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 288-32-4<br>206-019-2<br>613-319-00-0 | Imidazole                     | Acute Tox. 4; H302<br>Skin Corr. 1C; H314<br>Repr. 1B; H360D                               | 0.2-2 (VP01-125 / VP01-500)<br>1-10 (VP05-125 / VP05-500) |
| 7446-20-0<br>616-097-3<br>—           | Zinc sulphate<br>heptahydrate | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | 0.2-2 (VP01-125 / VP01-500)<br>1-10 (VP05-125 / VP05-500) |

## 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: Room temperature

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## Specific end use(s)

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 |
|---------------------------|------------------------|----------|-------------|------|
| Imidazole<br>288-32-4     | 10.6 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                                             | Odorless                  |
| Odour Threshold                                   | No data available         |
| pH                                                | No data available         |
| 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         |

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|                           |                   |
|---------------------------|-------------------|
| Decomposition temperature | No data available |
| 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

|                                             |                   |
|---------------------------------------------|-------------------|
| <b>Information on toxicological effects</b> | No data available |
|---------------------------------------------|-------------------|

### Acute toxicity

| Component Name<br>CAS No.               | Result                   | Species    | Dose                        | Exposure  |
|-----------------------------------------|--------------------------|------------|-----------------------------|-----------|
| Imidazole<br>288-32-4                   | LD50 Oral                | Rat        | 970 mg/kg                   | —         |
| Zinc sulphate heptahydrate<br>7446-20-0 | LD50 Dermal<br>LD50 Oral | Rat<br>Rat | >2,000 mg/kg<br>1,260 mg/kg | 24 h<br>— |

### Skin corrosion/irritation

| Component Name<br>CAS No.               | Result                                          | Species | Exposure                 |
|-----------------------------------------|-------------------------------------------------|---------|--------------------------|
| Imidazole<br>288-32-4                   | Eyes - Moderate irritant<br>Skin - Causes burns | Rabbit  | standard Draize          |
| Zinc sulphate heptahydrate<br>7446-20-0 | Eyes - Moderate irritant                        | Rabbit  | 420 ug (standard Draize) |

|                                                    |                                                                                                                                                         |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                       |

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## 12. Ecological information

### Toxicity

| Component Name<br>CAS No.               | Freshwater Algae Data                                                                                                                                                                                                                | Water Flea Data                                    | Freshwater Fish Species Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Microtox Data                                                                                    | log Pow |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------|
| Imidazole<br>288-32-4                   | Desmodesmus subspicatus EC50<br>130 mg/L (72h)<br>Desmodesmus subspicatus EC50<br>82 mg/L (96 h)                                                                                                                                     | Daphnia magna<br>EC50<br>341.5 mg/L (48 h)         | Leuciscus idus LC50<br>280 mg/L (48 h static)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pseudomonas putida EC50<br>1200 mg/L (17 h)<br>Photobacterium phosphoreum<br>EC50 231 mg/L (30m) | -0.02   |
| Zinc sulphate heptahydrate<br>7446-20-0 | Desmodesmus subspicatus EC50<br>53 mg/L (72 h)<br>Desmodesmus subspicatus EC50<br>30 - 100 mg/L (96 h)<br>Pseudokirchneriella subcapitata EC50<br>3.59 – 15.6 mg/L (96 h)<br>Pseudokirchneriella subcapitata EC50<br>117 mg/L (96 h) | Daphnia magna<br>EC50<br>0.538 – 0.908 mg/L (48 h) | Pimephales promelas<br>LC50 10.2 - 22.5 mg/L (96 h semi-static 1)<br>Poecilia reticulata<br>LC50 10.8 - 16.6 mg/L (96 h static 1)<br>Poecilia reticulata<br>LC50 13.5 - 18.3 mg/L (96 h semi-static 1)<br>Pimephales promelas<br>LC50 15 - 18.9 mg/L (96 h static 1)<br>Pimephales promelas<br>LC50 22.1 - 22.8 mg/L (96 h static 1)<br>Lepomis macrochirus<br>LC50 4.06 - 5.75 mg/L (96 h static 1)<br>Lepomis macrochirus<br>LC50 4.2 - 4.8 mg/L (96 h flow-through 1)<br>Oncorhynchus mykiss<br>LC50 4.3 - 8.5 mg/L (96 h static 1)<br>Pimephales promelas<br>LC50 5.8 - 7.5 mg/L (96 h static 1)<br>Pimephales promelas<br>LC50 6.2 - 9.6 mg/L (96 h 1)<br>Pimephales promelas<br>LC50 8 - 12.5 mg/L (96 h static 1)<br>Brachydanio rerio<br>LC50 9.9 - 20.1 mg/L (96 h semi-static 1)<br>Cyprinus carpio LC50<br>1.31 mg/L (96 h semi-static 1) | —                                                                                                | 1.6     |

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|                                           |                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                   |  |  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                           |                                                                                                                                                                                                    |  | <p>Oncorhynchus mykiss<br/>LC50 4.2 mg/L (96 h<br/>1)</p> <p>Lepomis macrochirus<br/>LC50 4.5 mg/L (96 h<br/>1)</p> <p>Oncorhynchus mykiss<br/>LC50 4.62 mg/L (96 h<br/>flow-through 1)</p> <p>Brachydanio rerio<br/>LC50 7.97 mg/L (96 h<br/>flow-through 1)</p> |  |  |
| <b>Persistence and degradability</b>      | No data available                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                   |  |  |
| <b>Bioaccumulative potential</b>          | No data available                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                   |  |  |
| <b>Mobility in soil</b>                   | No data available                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                   |  |  |
| <b>Results of PBT and vPvB assessment</b> | 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. |  |                                                                                                                                                                                                                                                                   |  |  |
| <b>Other adverse effects</b>              | 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>                  | Solution 1                                                       | UN3267                                                                                |
|                                   | Solution 2                                                       | UN3082                                                                                |
| <b>UN proper shipping name</b>    | Solution 1                                                       | 3267 Corrosive liquid, basic, organic, n.o.s. (Imidazole)                             |
|                                   | Solution 2                                                       | 3082 Environmentally hazardous substance, liquid, n.o.s. (Zinc sulphate heptahydrate) |
| <b>Transport hazard class(es)</b> | Solution 1                                                       | 8                                                                                     |
|                                   | Solution 2                                                       | 9                                                                                     |
| <b>Packaging group</b>            | Solution 1                                                       | III                                                                                   |
|                                   | Solution 2                                                       | III                                                                                   |
| <b>Environmental hazards</b>      | Solution 1                                                       | no                                                                                    |

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|                                                                                |                      |                                                                                                  |
|--------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------|
|                                                                                | Solution 2           | no                                                                                               |
| <b>Special precautions for user</b>                                            | Solution 1           | Warning: Corrosive substances.                                                                   |
|                                                                                | Solution 2           | Warning: Miscellaneous dangerous substances and articles.                                        |
|                                                                                | Danger code (Kemler) | Solution 1 80                                                                                    |
|                                                                                |                      | Solution 2 90                                                                                    |
|                                                                                | EMS Number           | Solution 1 F-A,S-B                                                                               |
|                                                                                |                      | Solution 2 F-A,S-F                                                                               |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> |                      |                                                                                                  |
| No data available                                                              |                      |                                                                                                  |
| <b>UN "Model Regulation"</b>                                                   | Solution 1           | UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (IMIDAZOLE), 8, III                             |
|                                                                                | Solution 2           | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC SULPHATE HEPTAHYDRATE), 9, III |

## 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 |
| Acute Tox.      | Acute toxicity                                                                      |
| Aquatic Acute   | Hazardous to the aquatic environment, acute hazard                                  |
| Aquatic Chronic | Hazardous to the aquatic environment, long-term hazard                              |
| BEIs            | Biological exposure indices                                                         |
| Eye Dam.        | Serious eye damage/eye irritation                                                   |
| IMDG            | International Maritime Dangerous Goods                                              |
| IATA            | International Air Transport Association-Dangerous Goods Regulations                 |
| CAS             | Chemical Abstracts Service (division of the American Chemical Society)              |
| OSHA            | Occupational Health and Safety Administration                                       |
| PEL             | Permissible Exposure Limit                                                          |
| Repr.           | Reproductive toxicity                                                               |
| RID             | Regulations Concerning the International Carriage of Dangerous Goods by Rail        |
| Skin Irrit.     | Skin corrosion/irritation                                                           |
| STEL            | Short Term Exposure Limit                                                           |
| TWA             | Time Weighted Average                                                               |

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## Further information

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