



MATERIAL SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006

SECTION 1: Product and Company Identification

1.1 Product Identifiers

Product Name	: Phenodrive
Contains	: Lyophilised peptide
Molecular Weight	: Not applicable
Chemical Formula	: Not Applicable
Product Number	:
Brand	: Tissue Click Ltd
Product Use	: Laboratory use only, <i>in vitro</i> cell culture systems

1.2 Details of Company

Company	: Tissue Click Ltd Unit C3C 325-327 Old Shoreham Road Hove BN3 7GS
Telephone	: (+44)7306575111
Email	: info@tissueclick.com
Emergency contact	: info@tissueclick.com

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Ingredients	: 100% amino acids
CAS no.	: no CAS or IUPAC number currently exists
Reach Registration no.	: This substance is exempted from Registration according to the provisions of Article 2(7)(a) and Annex IV of REACH.
Hazardous	: >99.9% No <0.1% No

This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product



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2.2 GHS Label element

Signal Word	: No signal word
Hazard Statements	: No known significant effects or critical hazards
<u>Precautionary Statements</u>	
Prevention	: Not Applicable
Response	: Not Applicable
Storage	: Not Applicable
Disposal	: Not Applicable

2.3 Other Hazards

Not currently known

SECTION 3: Physical Data and Substance composition

3.1 Physical Data

Melting Point	: N/A
Boiling Point	: N/A
Vapour Pressure (mm Hg)	: Not applicable
Specific gravity (H ₂ O=1)	: Not applicable, pH 7.0
Solubility in water	: Complete solubility in any aqueous medium and in ethanol (100% miscible)
Appearance and odor	: A lyophilised white powder and odourless

3.2 Substance Composition

Substance/Mixture	: 100% synthetic peptide
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There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.



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SECTION 4: First Aid Measures

4.1 Description of necessary first aid measures

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|--------------|---|
| Eye contact | : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. |
| Inhalation | : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Skin Contact | : Wash well with soap and water. Remove any contaminated clothing. If irritation continues, seek medical attention |
| Ingestion | : If swallowed, wash out mouth with water provided person is conscious. Get medical attention. |

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.2 Indication of any immediate medical attention and specific treatment needed

No data available

SECTION 5: Firefighting Measures

5.1 General information

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|--------------------------|--|
| Autoignition temperature | : Not available |
| Flash point | : Not available |
| Explosion limits (lower) | : Not considered to be an explosion hazard |
| Explosion limits (upper) | : Not considered to be an explosion hazard |

5.2 Extinguishing media

- | | |
|----------------------------------|--|
| Suitable extinguishing equipment | : Use any means suitable for extinguishing surrounding fire. |
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5.3 Special hazards arising from the substance or mixture

Specific hazards advice : None

5.4 Advice for firefighters

Firefighting protective equipment : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

SECTION 6- Accidental Release Measures

- Procedure in case of leak or spill : Sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let any of the substances enter the environment.
- Protective measures : Put on appropriate personal protective equipment (Section 8)

SECTION 7-Handling and Storage

- Precautions for safe handling : This material is believed to be non-hazardous. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. May cause allergic reaction in sensitized individuals.
- Safe Storage Requirements : Store at -20°C until ready to be used. Keep in a tightly closed sterilised container



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SECTION 8- Exposure Controls/Personal Protection

8.1 Control parameters

Permissible exposure limits (PELs)	: Not Available
ACGIHs Threshold Limit Values (TLV)	: Not Available
Other Exposure Limits	: N/A

8.2 Exposure controls

Engineering Controls	: Good general ventilation will be sufficient to control exposure of any airborne contaminants to users of the product
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8.3 Individual Protective Measures

Eye Protection	: Safety glasses, as needed
Face Protection	: Not needed
Skin Protection	: Wash thoroughly after handling
Respiratory Protection	: Not needed
Hand Protection	: Appropriate chemical resistant protective gloves to prevent skin exposure
Protective clothing	: Laboratory coat

SECTION 9-Physical and Chemical Properties

Physical state	: Solid
Colour	: White
Appearance and Odor	: Lyophilised powder and odorless
Odor Threshold	: Undetermined
pH	: 7.0
Melting Point	: Not available
Freezing Point	: Not available
Initial Boiling Point	: Not available
Boiling Range	: Not available
Flash Point	: Not applicable
Evaporation Rate	: Not available
Flammability (Solid, Gas)	: Not considered to be flammable
Vapour Pressure	: Not available



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Vapour Density	: Not available
Solubility	: Complete solubility in any aqueous medium and in ethanol (100% miscible)
Decomposition Temperature	: Not applicable

SECTION 10- Stability and Reactivity

Reactivity	: No data available
Stability	: Under storage at normal ambient temperatures (-40°C to +40 °C) the product is stable.
Conditions to avoid	: Heat, moist, incompatibles.
Incompatible Materials	: Strong acids and strong oxidizers.
Hazardous Decomposition Products	: Nature of decomposition products not known
Hazardous Polymerisation	: Will not occur

SECTION 11- Toxicological Information

Ingredients	: Amino acids
Skin Contact	: Peptides may cause skin irritation
Skin Absorption	: Peptides may be harmful in large quantities
Eye Contact	: Peptides may cause eye irritation in large quantities
Inhalation	: Peptides may be harmful if inhaled in large quantities
Ingestion	: Peptides may be harmful if swallowed in large quantities
Carcinogenicity	: None listed as a carcinogen by ACGIH, IARC, NTP or CA

SECTION 12- Ecological information

Avoid release of product into the environment, do not let product enter drains



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SECTION 13- Disposal Considerations

Dispose of in a manner consistent with all federal, government, state and local regulations

SECTION 14- Transportation Information

The product is considered to be non-hazardous for transport

SECTION 16- Other Information

This compound is sold only for research use by personnel familiar with the toxicology of organic chemicals and who are well trained in good laboratory habits, such as avoiding spills, always keeping hands clean and not rubbing eyes with hands while working in the laboratory. This compound is sold only in milligram quantities for use in diluted solutions in biological research. No other use is intended, and any other use may involve substantial hazards.

Disclaimer

: The above information is believed to be correct but does not purport to be all inclusive and should only be used as a guide for experienced personnel. 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. Tissue Click Ltd. shall not be held liable for any damage resulting from handling or contact with the above product.