1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: PneumaCult™-ALI 10X Supplement

Other means of identification

Catalog Number: 05003

Document Number: DX20874

Synonym: None

Recommended use of the chemical and restrictions on use

Recommended Use: Laboratory reagent

Details of the supplier of the safety data sheet

Manufacturer/Supplier: STEMCELL Technologies Canada Inc.
Suite 500 - 1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada

Emergency telephone number

Emergency Telephone: 1-800-667-0322

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)
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Revision Number 2.1

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Clear  Physical state Liquid  Odor No data available

Other Information
Not Applicable

Unknown acute toxicity
7.38E-06 % of the mixture consists of ingredient(s) of unknown toxicity
7.38E-06 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
7.38E-06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable.

Mixture
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation
Remove to fresh air.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact
Wash skin with soap and water.

Ingestion
Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects, both acute and delayed

Symptoms  No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media  CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical  No information available.

Explosion data

Sensitivity to Mechanical Impact  None.

Sensitivity to Static Discharge  None.

Special protective equipment for fire-fighters  Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions  Ensure adequate ventilation.

Environmental precautions

Environmental precautions  See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment  Prevent further leakage or spillage if safe to do so.

Methods for cleaning up  Pick up and transfer to properly labeled containers.

Prevention of secondary hazards  Clean contaminated objects and areas thoroughly observing environmental regulations.
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7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities
Storage Conditions
Store in accordance with information listed on the Product Information Sheet (PIS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Limits
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls
Engineering controls
Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment
Eye/face protection
No special protective equipment required.

Skin and body protection
No special protective equipment required.

Respiratory protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Other protection
This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious. Use controls and personal protection appropriate for biohazardous infectious materials, as described in: Canadian Biosafety Standards and Guidelines (CBSG), Second Edition.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>red</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Molecular formula</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Liquid Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity                      | No information available. |
Chemical stability               | Stable under recommended transport or storage conditions. |
Possibility of hazardous reactions| None under normal processing. |
Conditions to avoid
None known based on information supplied.

Incompatible materials
None known based on information supplied.

Hazardous decomposition products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation
Specific test data for the substance or mixture is not available.

Eye contact
Specific test data for the substance or mixture is not available.

Skin contact
Specific test data for the substance or mixture is not available.

Ingestion
Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available.

Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity
7.38E-06 % of the mixture consists of ingredient(s) of unknown toxicity
7.38E-06 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
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100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
7.38E-06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
No information available.

Product Information

Serious eye damage/eye irritation
No information available.

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**Respiratory or skin sensitization**
- No information available.

<table>
<thead>
<tr>
<th>Product Information</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Germ cell mutagenicity</th>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Information</th>
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</thead>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Reproductive toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Information</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>STOT - single exposure</th>
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</thead>
<tbody>
<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Information</th>
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</thead>
<tbody>
<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STOT - repeated exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Aspiration hazard</th>
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</thead>
<tbody>
<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Information</td>
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<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bioaccumulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no data for this product.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
</tr>
</tbody>
</table>

**13. DISPOSAL CONSIDERATIONS**

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from residues/unused products</td>
</tr>
<tr>
<td>Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contaminated packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not reuse empty containers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US EPA Waste Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>P119</td>
</tr>
</tbody>
</table>
14. TRANSPORT INFORMATION

DOT  Not regulated
TDG  Not regulated
MEX  Not regulated
ICAO (air)  Not regulated
IATA  Not regulated
IMDG  Not regulated
RID  Not regulated
ADR  Not regulated
ADN  Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA  Does not comply
DSL/NDSL  Does not comply
EINECS/ELINCS  Does not comply
ENCS  Does not comply
IECSC  Does not comply
KECL  Does not comply
PICCS  Does not comply
AICS  Does not comply

Legend:
TSCA  - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL  - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS  - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS  - Japan Existing and New Chemical Substances
IECSC  - China Inventory of Existing Chemical Substances
KECL  - Korean Existing and Evaluated Chemical Substances
PICCS  - Philippines Inventory of Chemicals and Chemical Substances
AICS  - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any
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chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel Sulfate Hexahydrate - 10101-97-0</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Cadmium Chloride - 10108-64-2</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water 7732-18-5</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Sodium Phosphate Dibasic 7558-79-4</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hydrochloric acid 7647-01-0</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Vitamin B12 68-19-9</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Sodium sulfate 7757-82-6</td>
<td>-</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Zinc Sulfate Heptahydrate 7446-20-0</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>Trade secret</td>
<td>X</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-------------</td>
<td>--------------</td>
<td>---</td>
</tr>
<tr>
<td>Ferrous Sulfate Heptahydrate</td>
<td>7782-63-0</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Trade secret</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ferric Nitrate Nonahydrate</td>
<td>7782-61-8</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>7757-79-1</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
<td>60-00-4</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Copper Sulfate Pentahydrate</td>
<td>7758-99-8</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate</td>
<td>7761-88-8</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tin Dichloride</td>
<td>7772-99-8</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cobalt (II) Chloride Hexahydrate</td>
<td>7791-13-1</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ammonium Metavanadate</td>
<td>7803-55-6</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Aluminum Chloride Hexahydrate</td>
<td>7784-13-6</td>
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<td>-</td>
</tr>
<tr>
<td>Barium Acetate</td>
<td>543-80-6</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Trade secret</td>
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<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cadmium Chloride</td>
<td>10108-64-2</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Chromium (III) chloride</td>
<td>10025-73-7</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Manganous Sulfate Monohydrate</td>
<td>10034-96-5</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Nickel Sulfate Hexahydrate</td>
<td>10101-97-0</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Sodium Fluoride</td>
<td>7681-49-4</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**
SAFETY DATA SHEET

05003 - PneumaCult™-ALI 10X Supplement

Prepared By, Quality Control. STEMCELL Technologies Canada Inc.
Revision Date 06-Oct-2023
Revision Note No information available.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

End of Safety Data Sheet