

## 1 Identification

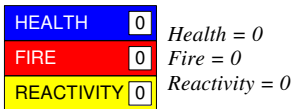
- **Product identifier**
- **Product Name:** 1000 µg/mL Phosphorus
- **Part Name:** PLP9-2T
- **Application of the substance / the mixture** For Laboratory Use Only
- **Uses advised against** Not for Human or Animal Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Spex CertiPrep, LLC.  
203 Norcross Ave, Metuchen,  
NJ 08840 USA  
732-549-7144  
USMet-CRMSales@antylia.com
- **Information department:** product safety department
- **Emergency telephone number:**  
Emergency Phone Number (24 hours)  
CHEMTREC (800-424-9300)  
Outside US: 703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Not Regulated
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard statements** Not Regulated
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Not Regulated

### Chemical identification of the substance/preparation

|           |                                                     |        |
|-----------|-----------------------------------------------------|--------|
| 7732-18-5 | water, distilled, conductivity or of similar purity | 99.63% |
| 7722-76-1 | ammonium dihydrogenorthophosphate                   | 0.37%  |

## 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not give anything to eat or drink - Do not induce vomiting
- **Information for Doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

|           |                                   |                      |
|-----------|-----------------------------------|----------------------|
| 7722-76-1 | ammonium dihydrogenorthophosphate | 17 mg/m <sup>3</sup> |
|-----------|-----------------------------------|----------------------|

· **PAC-2:**

|           |                                   |                       |
|-----------|-----------------------------------|-----------------------|
| 7722-76-1 | ammonium dihydrogenorthophosphate | 190 mg/m <sup>3</sup> |
|-----------|-----------------------------------|-----------------------|

· **PAC-3:**

|           |                                   |                         |
|-----------|-----------------------------------|-------------------------|
| 7722-76-1 | ammonium dihydrogenorthophosphate | 1,100 mg/m <sup>3</sup> |
|-----------|-----------------------------------|-------------------------|

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
No special measures required.  
Follow good laboratory practices.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
- **Respiratory protection:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

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### 9 Physical and chemical properties

|                                                                   |                                               |
|-------------------------------------------------------------------|-----------------------------------------------|
| · <b>Information on basic physical and chemical properties</b>    |                                               |
| · <b>General Information</b>                                      |                                               |
| · <b>Appearance:</b>                                              |                                               |
| Form:                                                             | Liquid                                        |
| Color:                                                            | According to product specification            |
| · Odor:                                                           | Characteristic                                |
| · Odour Threshold:                                                | Not applicable.                               |
| · pH-value:                                                       | Not applicable.                               |
| · <b>Change in condition</b>                                      |                                               |
| Melting point/Melting range:                                      | Undetermined.                                 |
| Boiling point/Boiling range:                                      | 100 °C (212 °F)                               |
| · Flash point:                                                    | Not applicable.                               |
| · Flammability (solid, gaseous):                                  | Not applicable.                               |
| · Decomposition temperature:                                      | Not applicable.                               |
| · Ignition temperature:                                           | Product is not selfigniting.                  |
| · Danger of explosion:                                            | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                                        |                                               |
| Lower:                                                            | Not applicable.                               |
| Upper:                                                            | Not applicable.                               |
| · Vapor pressure at 20 °C (68 °F):                                | 23 hPa (17.3 mm Hg)                           |
| · Density at 20 °C (68 °F)                                        | 1.00037 g/cm <sup>3</sup> (8.34809 lbs/gal)   |
| · Relative density                                                | Not applicable.                               |
| · Vapor density                                                   | Not applicable.                               |
| · Evaporation rate                                                | Not applicable.                               |
| · <b>Solubility in / Miscibility with</b>                         |                                               |
| Water:                                                            | Fully miscible.                               |
| · <b>Partition coefficient (n-octanol/water):</b> Not applicable. |                                               |
| · <b>Viscosity:</b>                                               |                                               |
| Dynamic:                                                          | Not applicable.                               |
| Kinematic:                                                        | Not applicable.                               |
| · <b>Solvent content:</b>                                         |                                               |
| Water:                                                            | 99.6 %                                        |
| VOC content:                                                      | 0.00 %                                        |
| Solids content:                                                   | 0.4 %                                         |
| · Other information                                               | No further relevant information available.    |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
- The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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**· Carcinogenic categories**

|                                                                    |
|--------------------------------------------------------------------|
| <b>· IARC (International Agency for Research on Cancer)</b>        |
| None of the ingredients is listed.                                 |
| <b>· NTP (National Toxicology Program)</b>                         |
| None of the ingredients is listed.                                 |
| <b>· OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |
| None of the ingredients is listed.                                 |

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

|                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| <b>· UN-Number</b>                                                               |                 |
| <b>· DOT, ADR, IMDG, IATA</b>                                                    | Not Regulated   |
| <b>· UN proper shipping name</b>                                                 |                 |
| <b>· DOT, ADR, ADN, IMDG, IATA</b>                                               | Not Regulated   |
| <b>· Transport hazard class(es)</b>                                              |                 |
| <b>· DOT, ADR, ADN, IMDG, IATA</b>                                               |                 |
| <b>· Class</b>                                                                   | Not Regulated   |
| <b>· Packing group</b>                                                           |                 |
| <b>· DOT, ADR, IMDG, IATA</b>                                                    | Not Regulated   |
| <b>· Environmental hazards:</b>                                                  | Not applicable. |
| <b>· Special precautions for user</b>                                            | Not applicable. |
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>                                                  | Not Regulated   |

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.
- **Sara**

|                                                          |
|----------------------------------------------------------|
| <b>· Section 313 (Specific toxic chemical listings):</b> |
| None of the ingredients is listed.                       |
| <b>· TSCA (Toxic Substances Control Act):</b>            |
| All components have the value ACTIVE.                    |
| <b>· Hazardous Air Pollutants</b>                        |
| None of the ingredients is listed.                       |

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**· Proposition 65**

**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**

**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements** Not Regulated

**· Hazard pictograms** Not Regulated

**· Signal word** Not Regulated

**· Hazard statements** Not Regulated

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Department issuing SDS:** product safety department

**· Contact:**

Spex CertiPrep, LLC.

1-732-549-7144

**· Date of preparation / last revision** 02/14/2024

**· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit