1. **Identification of the substance/mixture and of the company/undertaking**

1.1. **Product identifier**
- **Product name:** Alkyne Phosphoramidite, 5'-terminal
- **Catalog number(s):** 22260, 32260, 42260, 62260, 82260
- **Substance name:** Alkyne Phosphoramidite, 5'-terminal
- **Molecular formula:** C21H36N3O3P
- **Molecular weight:** 409.50
- **CAS number:** 1417539-32-2
- **EC number:** N/A
- **REACH registration number:** N/A

1.2. **Relevant identified uses of the substance or mixture and uses advised against**
Analytical reagent. Reagent for research and development.

1.3. **Details of the supplier of the Safety Data Sheet**
- **Supplier:** Lumiprobe Corp.
  - 1835 E. Hallandale Beach Blvd. #221
  - Hallandale Beach
  - FL 33009
  - USA
  - +1 888 9736353
  - order@lumiprobe.com
- **Supplier:** Lumiprobe GmbH
  - Feodor-Lynen-Str. 23
  - 30625 Hannover
  - Germany
  - +49 511 16596811
  - de@lumiprobe.com

1.4. **Emergency telephone number**
+1 888 973 6353 ext 2; +49 (0)511 16596812

2. **Hazards identification**

2.1. **Classification of the substance or mixture**
The substance is not hazardous according to EU regulation (EC) No 1272/2008, and it does not contain any hazardous substance at more than 1% by weight. US Export Control Classification Number (ECCN) - EAR99 - The substance does not require a license.

2.2. **Label elements**
Not applicable

2.3. **Other hazards**
No other hazards identified

3. **Composition/information on ingredients**

3.1. **Substances**
- **Product name:** Alkyne Phosphoramidite, 5'-terminal
- **CAS number:** 1417539-32-2
- **Weight %:** >95 %

3.2. **Mixtures**
Not applicable.
4. First aid measures

4.1. Description of first aid measures

General notes  Wash thoroughly after use.
Inhalation     Move individual to fresh air and seek medical advice.
Skin contact  Wash affected area with water for 15 minutes and seek medical advice if irritation occurs.
Eye contact   Flush eye with water for 15 minutes and seek medical advice if irritation occurs.
Ingestion     Seek medical advice.
Self-protection of first aider Wear protective gloves.

4.2. Most important symptoms and effects, both acute and delayed
We are not aware of any reported health hazards for this product.

4.3. Indication of any immediate medical attention and special treatment needed
No immediate medical attention or special treatment indicated.

5. Firefighting measure

5.1. Extinguishing media
Suitable extinguishing media Depending on the surrounding fire. The substance is not flammable.
Unsuitable extinguishing media Not known.

5.2. Special hazards arising from the substance or mixture
No special fire hazards.

5.3. Advice for firefighters
No specific precautions arising from the substance.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel avoid breathing in dust. Wear gloves and safety glasses.
For emergency responders avoid breathing in dust. Wear gloves and safety glasses.

6.2. Environmental precautions
Avoid release into environment and sewage water system.

6.3. Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Type</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small spill</td>
<td>Sweep up spilled substance promptly and dispose according to local regulations.</td>
</tr>
<tr>
<td>Large spill</td>
<td>Avoid dispersal. Sweep up spilled substance promptly and dispose according to local regulations.</td>
</tr>
</tbody>
</table>

6.4. Reference to other sections
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. Handling and storage
7.1. Precautions for safe handling
Wear protective equipment as specified in section 8.
Do not eat, drink and smoke in work areas. Thoroughly wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities
Storage: 24 months after receipt at -20°C. Transportation: at room temperature for up to 3 weeks. Desiccate.

7.3. Specific end use(s)
Analytical reagent. Reagent for research and development.

8. Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limits known.

8.2. Exposure controls
Appropriate engineering controls:
Work in a fume hood.

Personal protection:
Work in a fume hood with usual precautions.

Eye/face protection:
Wear safety glasses.

Skin protection:
Wear chemical-resistant gloves. Wear a lab coat and appropriate shoes.

Respiratory protection:
Work in a fume hood

Environmental exposure controls:
Do not drain into sewage system

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
colorless solid

Odour
Odourless

Odour threshold
Not available

pH
Not available

Melting point / freezing point
Not available

Initial boiling point and boiling range
Not available

Flash point
Substance does not sustain combustion.

Evaporation rate
Not available

Flammability (solid, gas)
Non-flammable

Upper/lower flammability or explosive limits
Not available

Vapour pressure
Not available

Vapour density
Not available
Relative density  Not available
Solubility(ies)  good in acetonitrile and dichloromethane
Partition coefficient: n-octanol/water  Not available
Auto-ignition temperature  Not available
Decomposition temperature  Not available
Viscosity  Not available
Explosive properties  Non-explosive
Oxidising properties  Not available

9.2. Other information
Not applicable

10. Stability and Reactivity

10.1. Reactivity
No specific test data available for this substance.

10.2. Chemical stability
The product is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions
No hazardous reactions will occur under normal conditions of storage and use.

10.4. Conditions to avoid
No specific data.

10.5. Incompatible materials
No specific data.

10.6. Hazardous decomposition products
No dangerous decomposition products should be produced under normal conditions of storage and use.

11. Toxicological information
The toxicological properties of this substance have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity
No test data available.

12.2. Persistence and degradability
No test data available.

12.3. Bioaccumulative potential
No test data available.

12.4. Mobility in soil
No test data available.

12.5. Results of PBT and vPvB assessment
No test data available.

**12.6. Other adverse effects**
No test data available.

**12.7. Additional information**
We are not aware of any ecological hazards arising from this substance.

**13. Disposal considerations**

**13.1. Waste treatment methods**
Waste should not be disposed of by release to sewers. Consult local, state or national regulations for applicable requirements.

**14. Transport Information**

**14.1. UN number**
Not regulated.

**14.2. UN proper shipping name**
Not applicable.

**14.3. Transport hazard class(es)**
Not applicable.

**14.4. Packing group**
Not applicable.

**14.5. Environmental hazards**
No.

**14.6. Special precautions for user**
Not available.

**14.7 IATA/ICAO**
Not regulated.

**15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
The substance is not listed under relevant regulations.

**15.2. Chemical Safety Assessment**
No Chemical Safety Assessment has been carried out for this substance by the supplier.

**16. Other information**

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