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

1.1. Product identifier
- Product name: Azidobutyric acid NHS ester
- Catalog number(s): 33720, 43720, 53720, 63720, 73720, 83720
- Substance name: Azidobutyric acid NHS ester
- Molecular formula: C8H10N4O4
- Molecular weight: 226.19
- CAS number: 943858-70-6
- 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
- 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: Azidobutyric acid NHS ester
- CAS number: 943858-70-6
- 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
Small spill
Sweep up spilled substance promptly and dispose according to local regulations.

Large spill
Avoid dispersal. Sweep up spilled substance promptly and dispose according to local regulations.

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: 12 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
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in organic solvents (DMF, DMSO)</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Non-explosive</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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
Date of issue/revision 11.12.2018
Version 1