Safety Data Sheet (SDS)

1. Product and Company Identification

**Product Name:**
HiLyteᵀᴹ Fluor 488 acid, SE
HiLyteᵀᴹ Fluor 488 acid, NHS ester

**Manufacturer/Supplier:**
AnaSpec, Inc.
34801 Campus Drive
Fremont, CA 94555
Tel: 510-791-9560
Fax: 510-791-9572
Email: service@anaspec.com

Kaneka Eurogentec SA,
Rue du Bois Saint Jean 5 4102 Seraing Belgium
Tel. +32-4-3727400
Fax. +32-4-3727500
E-mail info@eurogentec.com

**Catalog Number**
AS-81161, AS-81161-1

2. Hazards Identification

**Emergency Overview:** We do recommend handling all chemicals with caution. Use proper protective equipment when handling chemicals. To our knowledge, the hazards of this material have not been thoroughly investigated.

**GHS Hazard Classification:** Not a hazardous substance or mixture

**GHS Physical Hazards:** Not a hazardous substance or mixture

**GHS Health and Environmental Hazards:** Not a hazardous substance or mixture

**GHS Signal Words:** N/A

**GHS Hazard Symbol/Pictogram:** N/A

**GHS Hazard Statements:** N/A

**GHS Precautionary Statements:** N/A
Potential Health Effects for:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: No information available

HMIS Classification

Health hazard: 0
Chronic Health Hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0
Fire: 0
Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name: HiLyteᵀᴹ Fluor 488 acid, SE
Molecular Formula: N/A
Molecular Weight: 583.6
CAS Number: N/A
EC-No N/A

4. First Aid Measures

Inhalation: If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.

Ingestion: If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Skin: If skin or hair contact occurs: Flush skin and hair with running water (and soap if available).
| Eyes: | If this product comes in contact with the eyes:  
|       | Wash out immediately with fresh running water.  
|       | Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  
|       | If pain persists or recurs seek medical attention. |

5. Fire Fighting Measures

| Extinguishing media: | Water spray or fog.  
|                     | Alcohol resistant foam.  
|                     | Dry chemical powder.  
|                     | BCF (where regulations permit).  
|                     | Carbon dioxide |

| Special firefighting procedures: | Alert Emergency Responders and tell them location and nature of hazard.  
|                                 | Wear breathing apparatus plus protective gloves.  
|                                 | Prevent, by any means available, spillage from entering drains or water course.  
|                                 | Use water delivered as a fine spray to control fire and cool adjacent area.  
|                                 | **DO NOT** approach containers suspected to be hot.  
|                                 | Cool fire exposed containers with water spray from a protected location.  
|                                 | If safe to do so, remove containers from path of fire.  
|                                 | Equipment should be thoroughly decontaminated after use. |

| Unusual fire and explosions hazards: | Emits toxic fumes under fire conditions |

6. Accidental Release Measures

| Spill response | Remove all ignition sources.  
|               | Clean up all spills immediately.  
|               | Avoid contact with skin and eyes.  
|               | Control personal contact by using protective equipment.  
|               | Use dry clean up procedures and avoid generating dust.  
|               | Place in a suitable, labeled container for waste disposal |

| Containment | Avoid all personal contact, including inhalation.  
|            | Wear protective clothing when risk of exposure occurs.  
|            | Use in a well-ventilated area.  
|            | **DO NOT** enter confined spaces until atmosphere has been checked.  
|            | **DO NOT** allow material to contact humans, exposed food or food utensils.  
|            | Avoid contact with incompatible materials.  
|            | When handling, **DO NOT** eat, drink or smoke.  
|            | Keep containers securely sealed when not in use.  
|            | Avoid physical damage to containers.  
|            | Always wash hands with soap and water after handling.  
|            | Use good occupational work practice.  
|            | Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.  
|            | **DO NOT** cut, drill, grind or weld such containers |
7. Handling and Storage
Store at 4 °C desiccated and protected from light. Store away from oxidizing agent.

8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Engineering controls</th>
<th>Use personal protective equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PPE</strong></td>
<td>Use personal protective equipment</td>
</tr>
</tbody>
</table>

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Odour</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Thermal Decomposition</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dangerous Products of Decomposition</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Dangerous Reactions</strong></td>
<td>COx, NOx when burned</td>
</tr>
</tbody>
</table>

- Keep container tightly closed in a dry well-ventilated place. Store in 4°C refrigerator.

11. Toxicological Information

<table>
<thead>
<tr>
<th>RTECS Number</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Health Hazards</strong></td>
<td>Although ingestion is not thought to produce harmful effects, the material may still be damaging to the health of the individual following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.</td>
</tr>
<tr>
<td><strong>Potential Hazards</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No significant acute toxicological data identified</td>
</tr>
<tr>
<td><strong>OSHA Permissible Exposure Limit (PEL) Data</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>ACGIH Threshold Limit Values (TLV)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Reproductive Toxicity</strong></td>
<td>No information available</td>
</tr>
</tbody>
</table>

**12. Ecological Information**

No information available.

**13. Disposal Considerations**

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

**14. Transport Information**

| **Hazard Class** | N/A |
| **Identification Number** | N/A |
| **Packing Group** | N/A |
| **Proper Shipping Name (DOT)** | N/A |

**15. Regulatory Information**

*California Proposition 65: N/A*
*US TSCA (Toxic Substance Control Act): N/A*
*US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): N/A*
*US SARA Title III (Superfund Amendments and Reauthorization Act): N/A*
*US Other: N/A*

*EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A*

*EC Risk Statements: N/A*

*Other Country Regulations: N/A*

**16. Other Information**

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified
individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.