Section 1. Product and Company Identification

Product Name: A-779  
Product ID: A0099  
Chemical Name (Synonyms): H-Asp-Arg-Val-Tyr-Ile-His-D-Ala-OH trifluoroacetate salt  
Supplier: LKT Laboratories, Inc  
545 Phalen Blvd.  
St. Paul, MN 55130 USA  
Ph: 651-644-8424 Fax: 651-644-8357  
www.lktlabs.com - getinfo@lktlabs.com  
Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification: Not a hazardous substance or mixture.

GHS Label elements including precautionary statements

Pictogram

Signal word

Hazard and precautionary statements

Hazard statement: Not a hazardous substance or mixture.  
Precautionary statement: Not a hazardous substance or mixture.

HMIS Classification

Health hazard: 0  
Chronic health hazard: *  
Flammability: 0  
Physical hazard: 0

NFPA Rating

Health hazard: 0  
Fire hazard: 0  
Reactivity hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.  
Skin - May be harmful if absorbed through skin. May cause skin irritation.  
Eyes - May cause serious eye irritation.
Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Formula</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
</table>
| \( \text{C}_{39}\text{H}_{60}\text{N}_{12}\text{O}_{11} \) | 872.99 | 159432-28-7 | |}

Section 4. First Aid Measures

General advice

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5. Firefighting Measures

Flash Point

Not available.

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical powder, or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

Unusual Fire Hazards

Carbon oxides, nitrogen oxides (NOx), hydrogen fluoride.

Section 6. Accidental Release Measures

Personal Precautions

Avoid dust formation. Avoid breathing vapors, mist, or gas.

Environmental Precautions

No special environmental precautions required.

Methods and materials for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Store in a dry and well-ventilated place in a tightly closed container. Recommended storage temperature: -20°C. Storage class (TRGS 510): Non-combustible solids.

Hazardous Decomposition Products

Not available.

Other Remarks

None.
### Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

**EXPOSURE CONTROLS**

Contains no substances with occupational exposure limit values.

**PERSONAL PROTECTION**

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White to off-white powder.</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Volatility</strong></td>
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</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Density</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Solubility</strong></td>
<td>Not available</td>
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<tr>
<td><strong>pH</strong></td>
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<tr>
<td><strong>Flash Point</strong></td>
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</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
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</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
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</tr>
<tr>
<td><strong>Water solubility</strong></td>
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<tr>
<td><strong>Odor</strong></td>
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<tr>
<td><strong>Partition coefficient:</strong></td>
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</tr>
<tr>
<td>n-octanol/water</td>
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<tr>
<td><strong>Odor Threshold</strong></td>
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</tr>
<tr>
<td><strong>Relative vapor density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Section 10. Stability and Reactivity

**Stability**

Stable under recommended storage conditions.

**Materials To Avoid**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Not available.
Section 11. Toxicological Information

**Oral LD50** Not available.

**Inhalation LC50** Not available.

**Dermal LD50** Not available.

**Other information on acute toxicity** Not available.

**Skin corrosion/irritation** Not available.

**Serious eye damage/irritation** Not available.

**Respiratory or skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

**Reproductive Toxicity** Not available.

**Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Not available.

**Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** Not available.

**Additional Information** RTECS: Not available.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Potential Health Effects** Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Skin - May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause serious eye irritation.

Ingestion - May be harmful if swallowed.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** PbT/vPvB assessment not available as chemical safety assessment not required/not applicable.
Section 13. Disposal Considerations

Waste Disposal
Dispose of material according to all federal, state, and local regulations.
Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) Not dangerous goods.
IATA Not dangerous goods.
IMDG Not dangerous goods.

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components No SARA hazards.

Massachusetts Right To Know Components No components are subject to the Massachusetts Right of Know Act.

Pennsylvania Right To Know Components A-779 CAS #: 159432-28-7 Revision Date:

New Jersey Right To Know Components A-779 CAS #: 159432-28-7 Revision Date:

California Prop 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

Other information The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.