1. Identification of Substance/ Identification of Company

Product: H-Asp(OtBu)-OMe HCl  
Catalog #: AHD114  
Chemical Formula: C_9H_{18}ClNO_4  
Synonyms: L-Aspartic acid alpha methyl ester beta tert-butyl ester hydrochloride salt

Supplier: AAPPTec, LLC  
6309 Shepherdsville Road  
Louisville, Kentucky USA  
40228  
Telephone: 502-968-2223  
Fax: 502-968-3338

2. Hazards Identification

OSHA hazards: No known OSHA hazards

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 eye irritation.
- Ingestion: May be harmful if swallowed

3. Composition/ information on ingredients

Substance/preparation: Substance  
Chemical Name: L-Aspartic acid alpha methyl ester beta tert-butyl ester hydrochloride salt  
CAS #: 2673-19-0  
EC #: Not available

4. First Aid Measures

First Aid Measures

- General: Consult a physician. Show this safety date sheet to the doctor in attendance. Move out of dangerous area.
- Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration.
- Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.
- Skin Contact: Wash off with soap and plenty of water.
- Eye Contact: Flush eyes with water as a precaution.
5. **Fire-fighting Measures**

*Flammability of Product*
- **Flash Point:** No data available
- **Ignition Temperature:** No data available

*Extinguishing Media (Small Fire):* Use a carbon dioxide or dry chemical extinguisher.

*Extinguishing Media (Large Fire):* Use water spray, fog, or foam. Do not use water jet.

*Hazardous thermal decomposition products:* Oxides of carbon (CO, CO$_2$) and nitrogen (NO, NO$_2$, ...), hydrogen chloride (HCl)

*Special fire-fighting procedures:* Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

*Protection of fire-fighters:* Use an approved/certified respirator or equivalent.

*Other Information:* Prevent fire-fighting water from entering ground water or surface water.

6. **Accidental Release Measures**

*Personal Precautions:* Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

*Small Spill or Leak:* Sweep up and place in a suitable container for disposal according to local regulations.

*Large Spill or Leak:* Sweep up and shovel into suitable containers for disposal according to local regulations. Do not allow product to enter drains.

7. **Handling and Storage**

*Handing:* Avoid contact with skin and eyes. Avoid forming dust and aerosols. Provide appropriate exhaust ventilation in places where dust is formed. Normal measures for preventive fire protection.

*Storage:* Keep container tightly closed. Keep dry in a well ventilated place.

8. **Exposure Controls/Personal Protection**

*Exposure Limits*  
Contains no substances with occupational exposure limit values.

*Engineering Measures:* Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist use ventilation to keep exposure to airborne contaminants below the exposure limit.

*Personal Protective Equipment*
Respiratory: 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).

Skin and Body: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hands: Handle with gloves
Eyes: Safety glasses with side shields conforming to EN166.

Hygiene Measures: Wash hands after handling and before eating, smoking, using lavatory, and end of the day. Change contaminated clothing immediately.

9. Physical and Chemical Properties

Physical State: Solid
Color: White to off-white
Molecular Weight: 239.7
Melting Point: No data available
Boiling Point: No data available
Flash Point: No data available
Ignition Temperature: No data available

Explosive Properties
Risk of explosion by mechanical impact: No data available
Risk of explosion by static discharge: No data available

Water Solubility: No data available

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.
Materials to Avoid: Strong oxidizing reagents, Strong acids.
Hazardous Decomposition Products: Oxides of carbon (CO, CO₂) and nitrogen (NO, NO₂, …), hydrogen chloride (HCl)

11. Toxicological Information

Acute Toxicity: No data available
Chronic Toxicity: No data available
Irritation and Corrosion: No data available
Sensitization: No data available
Carcinogenic Effects: No data available
Mutagenic Effects: No data available
Reproductive Toxicity: No data available
Teratogenic Effects: No data available
Signs and Symptoms of Exposure: No data available.

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 eye irritation.
Ingestion: May be harmful if swallowed
12. **Ecological Information**

   **Toxicity:** No data available  
   **Persistence and degradability:** No data available  
   **Bioaccumulative potential:** No data available  
   **Mobility in soil:** No data available  
   **PBT and PvBv assessment:** No data available  
   **Other adverse effects:** No data available

13. **Disposal Considerations**

   **Methods of Disposal of Waste Residues and Contaminated Packaging:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. **Transportation**

   **International Transport Regulations**
   - **DOT**
     - Not hazardous goods  
   - **IMDG**
     - Not hazardous goods  
   - **IATA**
     - Not hazardous goods

15. **Regulatory Information**

   **U.S. Federal Regulations**
   - **OSHA Hazards:** No known OSHA hazards  
   - **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 Hazards:** No SARA hazards

   **State Regulations:**
   - **Massachusetts Right To Know Components:** No components listed.  
   - **Pennsylvania Right To Know Components:**
     - L-Aspartic acid alpha methyl ester beta tert-butyl ester hydrochloride salt  
     - CAS No: 2673-19-0  
     - Revision Date:

   - **New Jersey Right To Know Components:**
     - L-Aspartic acid alpha methyl ester beta tert-butyl ester hydrochloride salt  
     - CAS No: 2673-19-0  
     - 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.

DSL Status: This product contains the following components that are not on the Canadian DSL nor NDSL lists.
L-Aspartic acid alpha methyl ester beta tert-butyl ester hydrochloride salt
CAS No: 2673-19-0

16. Other Information
Hazardous Material Information System (U.S.A.)

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National Fire Protection Association (U.S.A.)

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