

## 1. Identification of Substance/ Identification of Company

**Product:** Fmoc-Ala-Thr[Ψ<sup>Me,Me</sup>pro]-OH

**Catalog #:** PPD002

**Chemical Formula:** C<sub>25</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>

**Synonyms:**

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

## 2. Composition/ information on ingredients

**Substance/preparation:** Substance

**Chemical Name:** Fmoc-Ala-Thr[Ψ<sup>Me,Me</sup>pro]-OH

**CAS #:** Not available

**EC #:** Not available

## 3. Hazards Identification

**Physical/chemical hazards:** Not applicable.

**Human health hazards:** Not applicable.

## 4. First Aid Measures

### First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Ingestion:** In case of ingestion, wash out mouth with water, provided person is conscious. Seek medical advice.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

## **Effects and Symptoms**

**Inhalation:** Extremely hazardous in case of inhalation (lung corrosive). Inhalation of dust will produce irritation to gastro-intestinal or respiratory tracts characterized by burning, sneezing and coughing. Over-exposure by inhalation may cause respiratory irritation.

**Ingestion:** May be fatal if swallowed. May cause burns to mouth, throat and stomach.

**Skin Contact:** Extremely hazardous in case of skin contact (corrosive). Hazardous in case of skin contact (permeator). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns.

**Eye contact:** Extremely hazardous in case of eye contact (corrosive). Eye contact can result in corneal damage or blindness.

**Aggravating conditions:** Repeated or prolonged exposure is not known to aggregative medical condition.

## **5. Fire-fighting Measures**

**Flammability of Product:** May be combustible at high temperature.

**Extinguishing Media (Small Fire):** Use dry chemical powder.

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

**Hazardous thermal decomposition products:** Carbon oxides (carbon dioxide, carbon monoxide) and nitrogen oxides (NO, NO<sub>2</sub>, ...)

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

**Protection of fire-fighters:** Be sure to use an approved/certified respirator or equivalent.

## **6. Accidental Release Measures**

**Personal Precautions:** Wear splash goggles, full suit, boots, gloves. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.

**Small Spill or Leak:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill or Leak:** Use a shovel to put the material into a convenient waste disposal container.

## **7. Handling and Storage**

**Handling:** Keep away from heat, keep away from source of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breath dust.

**Storage:** Preserve in tight containers, ventilated area and store at 4 °C (39.2 °F).

## 8. Exposure Controls/Personal Protection

**Engineering Measures:** Good general ventilation should be sufficient to control airborne levels.

**Hygiene Measures:** Immediately change contaminated clothing. Wash hands and face after working with substance. Use safety goggles, appropriate laboratory apparel, shoes, rubber gloves and dust protection mask (high grade).

### Exposure Limits

**Ingredient Name:** Fmoc-Ala-Thr[Ψ<sup>Me,Me</sup>pro]-OH

**Occupational Exposure Limit:** Not available

### Personal Protective Equipment

**Respiratory System:** Use a NIOH/MSHA or European Standards EN 149 approved respirator or when dusts are generated.

**Skin and Body:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Hands:** Wear appropriate protective gloves.

**Eyes:** Wear appropriate protective eye glasses or chemical safety goggles.

## 9. Physical and Chemical Properties

**Physical State:** Powder

**Color:** White to Off-white

**Molecular Weight:** 452.5

**Solubility:** Not available

**Flash Point:** Not available

### Explosive Properties

Risk of explosion by mechanical impact: Not available

Risk of explosion by static discharge: Not available

## 10. Stability and Reactivity

**Stability:** The product is stable

**Conditions to Avoid:** None reported

**Hazardous Decomposition Products:** Carbon oxides (carbon dioxide, carbon monoxide) and nitrogen oxides (NO, NO<sub>2</sub>, ...)

## 11. Toxicological Information

**RTECS #:**

**Local Effects**

**Acute Toxicity:** Not available

**Chronic Toxicity:** Repeated or prolonged exposure is not known to aggravate medical condition.

**Other Toxic Effects on Humans:** Not available

**Carcinogenic Effects:** Not available

**Mutagenic Effects:** Not available

**Reproductive Toxicity:** Not available

**Teratogenic Effects:** Not available

## 12. Ecological Information

**Ecotoxicity:** Not available

**Toxicity of the Products of Biodegradation:** Degradation products are not toxic.

## 13. Disposal Considerations

**Methods of Disposal,**

**Waste Residues,**

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

## 14. Transportation

**International Transport Regulations**

**Land-Road/Railway**

**ADR/RID Class:** Not available

**Sea**

**IMDG Class:** Not available

**Air**

**IATA-DGR Class:** Not available

**Special Provisions for Transport:** Not available

## 15. Regulatory Information

**EU Regulations**

**Risk Phrases:** This product is not classified according to EU regulations

**U.S. Federal Regulations**

**TSCA:** No products were found

**SARA 302/304/311/312 extremely hazardous substances:** No products were found

**SARA 302/304 emergency planning and notification:** No products were found

**SARA 302/304/311/312 hazardous chemicals:** No products were found

**SARA 311/312 MSDS distribution-chemical inventory-hazard identification:** No products were found

**SARA 313 toxic chemical notification and release reporting:** No products were found

**Clean Water Act (CWA) 307:** No products were found

**Clean Water Act (CWA) 311:** No products were found

**Clean Air Act(CAA) 112 accidental release prevention:** No products were found

**Clean Air Act(CAA) 112 regulated flammable substances:** No products were found

**Clean Air Act (CAA) 122 regulated toxic substances:** No products were found

**HCS Classification:** Not controlled under the HCS (United States)

**State Regulations:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada)

## 16. Other Information

### Hazardous Material Information System (U.S.A.)

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	A

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



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