Safety Data Sheet

1. Identification of Substance/ Identification of Company

Product: Fmoc-Glu(OtBu)-Ser($\Psi^{Me,Me}$ pro)-OH
Catalog #: PPD009
Chemical Formula: $C_{30}H_{36}N_2O_8$

Relevant Identified Uses: Laboratory chemicals, manufacture of substances

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

2. Hazards Identification

Classification: Not a hazardous substance or mixture

GHS Label Elements: Not a hazardous substance or mixture

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS: none

3. Composition/ information on ingredients

Substance/preparation: Substance
Chemical Name: Fmoc-Glu(OtBu)-Ser($\Psi^{Me,Me}$ pro)-OH
Formula: $C_{30}H_{36}N_2O_8$
Molecular Weight: 552.62 g/mol
CAS #: 909115-33-9
EC #: Not available.

No ingredients are hazardous according to OSHA criteria.
No components need to be disclosed according to applicable regulations

4. First Aid Measures

First Aid Measures

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.

Important Symptoms and Effects, Both Acute and Delayed
The most important known symptoms and effects are described in Section 2 and/or Section 11

Indication of Any Immediate Medical Attention
No data available

5. Fire-fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous thermal decomposition products: Oxides of carbon (CO, CO_2), oxides of nitriogen (NOx)..

Advice for firefighters: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) if necessary

Other Information: No data available

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. Avoid breathing dust, vapors, mist or gas. For personal protection see Section 8

Environmental Precautions: No special environmental precautions required..

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable containers for disposal.

Reference to Other Sections: For disposal see Section 13

7. Handling and Storage

Precautions for Safe Handling: Further processing 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. For precautions see Section 2.

Conditions for Safe Storage: Keep container tightly closed in a dry well-ventilated area. Storage class (TRGS 510): Non-combustible solids

Specific End Uses: Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

Control Parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Exposure Controls

Engineering Controls
General industrial hygiene practice

Personal Protective Equipment

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 work-place.

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).

Control of Environmental Exposure: No special environmental precautions are required.

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9. Physical and Chemical Properties

Physical State: Solid
Color: White
Odor: No data available
Odor Threshold: No data available
pH: No data available
Melting Point: No data available
Initial Boiling Point and Boiling Range: No data available
Flash Point: No data available
Evaporation Rate: No data available
Flammability (solid, gas): No data available
Upper/ Lower Flammability or Explosion Limits: No data available
Vapor Pressure: No data available
Vapor Density: No data available
Relative Density: No data available
Water Solubility: No data available
Partition Coefficient (n-octanol/water): No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Explosive Properties: No data available
Oxidizing Properties: No data available

Other Safety Information: No data available

10. Stability and Reactivity

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: No data available
Incompatible Materials: Strong oxidizing agents
Hazardous Decomposition Products: Other decomposition products – No data available
In event of fire: See Section 5

11. Toxicological Information

Toxicological Effects
Acute Toxicology: No data available
Inhalation – No data available
Dermal – No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/ Eye Irritation: No data available
Respiratory or Skin Sensitization: No data available
Germ Cell Mutagenicity: No data available
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

Reproductive Toxicity: No data available
Specific Organ Toxicity – Single Exposure: No data available
Specific Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: No data available
Additional Information
RTECS: Not available

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

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: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects: No data available

13. Disposal Considerations

Waste Treatment Methods
Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging: Dispose of as unused product

14. Transportation

DOT(US)
Not dangerous goods

IMDG
Not dangerous goods

IATA

Not dangerous goods

15. Regulatory Information

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 are subject to the Massachusetts Right to Know Act..

Pennsylvania Right To Know Components:
Fmoc-Glu(OtBu)-Ser($\Psi^{Me,Me}$ pro)-OH
CAS No: 909115-33-9
Revision Date:

New Jersey Right To Know Components:
Fmoc-Glu(OtBu)-Ser($\Psi^{Me,Me}$ pro)-OH
CAS No: 909115-33-9
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.

16. Other Information

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

Health Hazard	**0**
Flammability	**0**
Physical Hazard	**0**
Chronic Health Hazard	

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

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