

SAFETY DATA SHEET

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Section 1, Identification

- **Catalog Number:** PP-1-ES, PP-5-ES, PP-25-ES
- **Product Name:** Fmoc-Glu(OtBu)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH
- **Alternate Name:**
- **Chemical family:** Pseudoproline Dipeptide
- **Recommended Use:** Peptide Synthesis
- **Restrictions on Use:**

Section 2, Hazard(s) Identification

- **Emergency Overview: Caution!** Not yet fully tested. Risks cannot be excluded if the product is handled inappropriately.

Section 3, Composition/information on Ingredients

Components	CAS#	Chemical Formula	Molecular Weight
Fmoc-Glu(OtBu)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	909115-33-9	C ₃₀ H ₃₆ N ₂ O ₈	552.6 g/mol

Section 4, First-Aid Measures

- **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. Cold water may be used.
 - Do not apply neutralizing agents.
 - Get medical attention immediately.
- **Skin Contact**
 - In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.
 - Wash clothing before reuse. Thoroughly clean shoes before reuse.
 - Get medical attention immediately.
- **Inhalation**
 - If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
 - Get medical attention immediately.
- **Ingestion**
 - If swallowed, do not induce vomiting unless directed to do so by medical personnel.
 - Immediately make victim drink water (two glasses at most).
 - Never give anything by mouth to an unconscious person.

- Get medical attention immediately.

Section 5, Fire-Fighting Measures

- **Suitable Extinguishing Media:**
 - Water spray
 - Foam
 - Powder
 - Carbon dioxide
- **Special Exposure Hazards:**
 - Combustible. Development of hazardous combustion gasses or vapors possible in event of fire: nitrogen oxides.
- **Special Protection Equipment for Firefighters:**
 - Self-contained breathing apparatus.
 - Suitable protective clothing.

Section 6, Accidental release measures

- **Person-related precautionary measures:** Avoid substance contact. Avoid inhalation of dusts. Ensure supply of fresh air in enclosed rooms.
- **Environmental protection measures:** Do not allow to enter sewerage system.
- **Procedures for cleaning/absorption:** Take up dry. Forward for disposal. Clean affected area and avoid generation of dusts.

Section 7, Handling and storage

- **Handling:** No further requirements
- **Storage:** Keep closed tightly in dry, cool (+2 to +8°C) place.

Section 8, Exposure Controls/Personal Protection

- **Personal Protection:**
 - Avoid prolonged or repeated exposure
 - Wash thoroughly after handling
- **Eye protection:**
 - Required
- **Hand protection:**
 - Gloves (nitrile rubber)
- **Respiratory protection:**
 - Required when dusts are generated. Filter P 2 (acc. To DIN 3181) for solid and liquid particles of harmful substances.

Section 9, Physical and Chemical Properties

- **Physical Appearance:** Solid, white to off white
- **Odor:** NA
- **Boiling Point:** NA
- **Melting Point:** NA
- **Vapor Pressure (mmHg/70°F):** NA
- **Vapor Density (Air = 1):** NA
- **Specific Gravity:** NA

- **Solubility:** NA

Section 10, Stability and Reactivity

- **Stability:** Stable under recommended handling conditions.
- **Reactivity/Hazardous Decomposition Products:** In event of fire see section 5.
- **Conditions/Materials to Avoid:**
 - Keep away from: heat sources, ignition sources,
 - Violent reactions possible with oxidizing agents

Section 11, Toxicological information

- **Acute Toxicity:** NA
- **Further toxicological information:** Hazardous properties cannot be excluded. Handle with care usual when dealing with chemicals.
- **Routes of Exposure:** Ingestion, inhalation, eyes.

Section 12, Ecological information*

- **BOD5 and COD:** N/A

Section 13, Disposal considerations*

- **EPA Waste Number:** N/A
- **Treatment:** Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14, Transport information*

- **Proper Shipping Name:** Fmoc-Glu(OtBu)-Ser($\Psi^{Me,Me}pro$)-OH
- **Transport by Road/Rail (ADR/RID):** Not subject to transport regulations

Section 15, Regulatory information*

- **OSHA Hazards:** NA
- **SARA 302 Components:** NA
- **SARA 313 Components:** Fmoc-Glu(OtBu)-Ser($\Psi^{Me,Me}pro$)-OH is not subject to reporting levels
- **SARA 311/312 Hazards:** NA
- **California Prop. 65 Component:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16, Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether origination with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Gyros Protein Technologies.

*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).