Safety Data Sheet

1. Identification of Substance/ Identification of Company

Product: Fmoc-D-Glu(OAll)-OH
Catalog #: AFE225
CAS #: 204251-33-2
Chemical Formula: $C_{23}H_{23}NO_6$
Molecular Weight: 409.43 g/mol
Synonyms: Fmoc-D-glutamic acid γ-allyl ester

Relevant Identified Uses of the Substance or Mixture:
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 of the substance or mixture:
Not a hazardous substance or mixture

GHS Label Elements, Including Precautionary Statements:
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-D-Glu(OAll)-OH

CAS #: 204251-33-2
No ingredients are hazardous according to OSHA criteria.
No components need to be disclosed according to the applicable regulations

4. First Aid Measures

Description of First Aid Measures

Inhalation:	If inhaled, move person to fresh air. If not breathing, give artificial respiration.
Skin Contact:	Wash off with soap and plenty of water

Eye Contact: Flush eyes with water for 15 minutes (remove contacts).

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

.

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

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

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 nitrogen (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:
Do not allow product to enter drains.

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:
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see Section 2.

Conditions for Safe Storage:
Keep container tightly closed in a dry well-ventilated area. Keep away from heat. Recommended storage temperature: -15 to -25 °C. Keep in dry place

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:
Tightly fitting safety goggles. Face shield (8 inch minimum) 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:
Do not allow product to enter drains.

9. Physical and Chemical Properties

Appearance:	White to off-white solid
Odor:	No data available
Odor Threshold:	No data available
pH:	No data available
Melting Point:	No data available
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper/Lower Flammability or Explosive 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 presents 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 presents 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 presents 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 presents 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

Signs and Symptoms of Exposure:
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 Degradation:
No data available

Bio accumulative Potential:
No data available

.

Mobility in Soil:
No data available

Results of PBT and vPvB 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
Nα-Fmoc-Nim-Boc-D-histidine CAS No.: 159631-28-4

New Jersey Right To Know Components
Nα-Fmoc-Nim-Boc-D-histidine CAS No.: 159631-28-4

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
Flammability
Physical Hazard

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



Notice to Reader

To the best of apptec's knowledge, the information contained in this data sheet is accurate. However, neither aapptec nor any of its distributors assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Any material may present unknown hazards and should be used with caution. Final determination of suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, aapptec cannot guarantee that these are the only hazards that exist.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des merchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

RTECS: Registry of Toxic Effects of Chemical Substances

vPvB: very Persistent and very Bio accumulative

Date of Issue: 30 June, 2025