Safety Data Sheet

1. Identification of Substance/ Identification of Company

Product: Fmoc-Tyr(tBu)-OH
Catalog #: AFY105
Chemical Formula: $C_{28}H_{29}NO_5$
Molecular Weight: 459.5 g/mol
Synonyms: N-Fmoc-O-tert-butyl-L-tyrosine

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: N-Fmoc-O-tert-butyl-L-tyrosine
CAS #: 71989-38-3
EC #: 276-262-7

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: Check for and remove any contact lenses. Flush eyes with water as a precaution.

Effects and Symptoms

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin Contact: May be harmful is absorbed through skin. May cause skin irritation.

Eye contact: May cause eye irritation

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

5. Fire-fighting Measures

Flammability of Product: 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, …).

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.

6. Accidental Release Measures

Personal Precautions: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist before handling this product.

Small Spill or Leak: Use appropriate tools to put spilled material into a convenient waste disposal container.

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

7. Handling and Storage

Handing: Keep away from heat. Keep away from sources of ignition. Do not breath dust.

Storage: Keep container tightly closed. Do not store above 5˚C (41˚F).

8. Exposure Controls/Personal Protection

Appropriate 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 the glove's outer

surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with local laws and good laboratory practices. Wash and dry hands.

Body: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Control of Environment Exposure: No special environmental precautions required.

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.
Possiblity of Hazardous Reactions: No data available
Conditions to Avoid: No data available
Hazardous Decomposition Products: Oxides of carbon (CO, CO_2) and nitrogen (NO, NO_2, …).

11. Toxicological Information

RTECS #: Not available
Acute Toxicology: 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 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 carcinogen 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 Target Organ Toxicity – Single Exposure: No data available
Specific Target Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: No data available
Additional Information: To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

12. Ecological Information

Toxicity: No data available
Persistence and Degradation: No data available
Bioaccumulative 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

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

14. Transportation

DOT: 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.

State Regulations:
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right To Know Act.

Pennsylvania Right To Know Components

N-Fmoc-O-tert-butyl-L-tyrosine
CAS No.: 71989-38-3

New Jersey Right To Know Components

N-Fmoc-O-tert-butyl-L-tyrosine
CAS No.: 71989-38-3

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

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



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Date of Issue: 16 June, 2015