

# MATERIAL SAFETY DATA SHEET

## Section 1 - Identification

|                     |                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier  | Fmoc-Gly-OH                                                                                                                         |
| Catalog No.         | AS1216                                                                                                                              |
| Other identifiers   | Fmoc-glycine; N-Fmoc-glycine                                                                                                        |
| Recommended use     | Laboratory research and peptide synthesis, including Fmoc solid-phase peptide synthesis (SPPS).                                     |
| Restrictions on use | For research use only. Not for human or veterinary use, therapeutic use, diagnostic use, food, household, or consumer applications. |
| Responsible party   | Alan Scientific Inc.                                                                                                                |
| U.S. address        | 9031 Shady Grove Court, Gaithersburg, MD 20877 U.S.                                                                                 |
| Contact             | +1 888-757-1116   contactus@alanscientific.com   www.alanscientific.com                                                             |
| Emergency telephone | +1 888-757-1116                                                                                                                     |

## Section 2 - Hazard(s) Identification

|                          |                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OSHA HCS classification  | Not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200) based on currently available information reviewed for this document. |
| Signal word              | None required.                                                                                                                                                   |
| Hazard statements        | None required under OSHA HCS.                                                                                                                                    |
| Pictograms               | None required.                                                                                                                                                   |
| Precautionary statements | No OSHA HCS precautionary statements required. Use standard laboratory precautions and minimize dust generation.                                                 |
| HNOC                     | None known based on currently available information.                                                                                                             |
| Unknown acute toxicity   | Not applicable - substance, not a mixture.                                                                                                                       |

## Section 3 - Composition / Information on Ingredients

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| Substance / mixture            | Substance                                                 |
| Chemical name                  | N-Fmoc-glycine                                            |
| CAS No.                        | 29022-11-5                                                |
| Molecular formula              | C <sub>17</sub> H <sub>15</sub> NO <sub>4</sub>           |
| Purity / concentration         | Product-specific; refer to Certificate of Analysis (COA). |
| Hazard-contributing impurities | None known based on available information.                |

## Section 4 - First-Aid Measures

Inhalation: Move to fresh air. Obtain medical attention if symptoms occur or persist. Skin contact: Remove contaminated clothing and wash skin thoroughly with soap and water. Eye contact: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do, then continue rinsing. Ingestion: Rinse mouth. If conscious, give water. Do not give anything by mouth to an unconscious person. Symptoms/effects: No specific symptoms are known from available data. Treat symptomatically and supportively.

## Section 5 - Fire-Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide, as appropriate for the surrounding fire. Specific hazards: Combustion or thermal decomposition may generate carbon oxides, nitrogen oxides, and sulfur oxides where applicable. Firefighter protection: Wear self-contained breathing apparatus and appropriate protective equipment when conditions warrant.

**Section 6 - Accidental Release Measures**

Avoid dust formation and inhalation. Provide ventilation and use appropriate personal protective equipment. Contain the spill, collect material by sweeping or vacuuming without generating dust, and place in a suitable container for disposal. Avoid unnecessary environmental release.

**Section 7 - Handling and Storage**

Handle using good laboratory practice. Avoid inhalation of dust and contact with eyes, skin, and clothing. Store tightly closed in a cool, dry, well-ventilated area. Protect from moisture and conditions incompatible with the recommended storage environment.

**Section 8 - Exposure Controls / Personal Protection**

Engineering controls: Use general laboratory ventilation. Personal protective equipment: laboratory coat, safety glasses, and suitable gloves. Hygiene measures: Wash thoroughly after handling. No occupational exposure limit has been identified in currently reviewed source materials for this substance.

**Section 9 - Physical and Chemical Properties**

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| <b>Physical state</b>                  | Solid                                          |
| <b>Appearance</b>                      | White to off-white powder or crystalline solid |
| <b>Odor</b>                            | No data available                              |
| <b>pH</b>                              | No data available                              |
| <b>Melting point</b>                   | 149-152 °C                                     |
| <b>Boiling point / range</b>           | No data available                              |
| <b>Flammability</b>                    | No data available                              |
| <b>Flash point</b>                     | No data available                              |
| <b>Explosion / flammability limits</b> | No data available                              |
| <b>Auto-ignition temperature</b>       | No data available                              |
| <b>Decomposition temperature</b>       | No data available                              |
| <b>Vapor pressure</b>                  | No data available                              |
| <b>Density / relative density</b>      | No data available                              |
| <b>Solubility</b>                      | No data available                              |
| <b>Partition coefficient</b>           | No data available                              |
| <b>Kinematic viscosity</b>             | Not applicable to the supplied solid           |
| <b>Particle characteristics</b>        | No data available                              |
| <b>Molecular weight</b>                | 297.31 g/mol                                   |

**Section 10 - Stability and Reactivity**

Reactivity: No specific reactivity data available. Chemical stability: Stable under recommended storage conditions. Hazardous reactions: No hazardous polymerization or other hazardous reaction is known under recommended handling conditions. Conditions to avoid: Conditions inconsistent with recommended storage. Incompatible materials: Strong oxidizing agents. Hazardous decomposition products: Carbon oxides, nitrogen oxides, and sulfur oxides where applicable may form during combustion or thermal decomposition.

**Section 11 - Toxicological Information**

|                                         |                                                                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Likely exposure routes</b>           | Possible routes include inhalation of dust, eye contact, skin contact, and ingestion.                                       |
| <b>Acute toxicity</b>                   | No numerical acute-toxicity data available for the supplied substance.                                                      |
| <b>Skin corrosion / irritation</b>      | No data available.                                                                                                          |
| <b>Eye damage / irritation</b>          | No data available.                                                                                                          |
| <b>Respiratory / skin sensitization</b> | No data available.                                                                                                          |
| <b>Germ cell mutagenicity</b>           | No data available.                                                                                                          |
| <b>Carcinogenicity</b>                  | Not identified as a listed carcinogen by IARC, NTP, or OSHA based on currently available information.                       |
| <b>Reproductive toxicity</b>            | No data available.                                                                                                          |
| <b>STOT - single exposure</b>           | No data available.                                                                                                          |
| <b>STOT - repeated exposure</b>         | No data available.                                                                                                          |
| <b>Aspiration hazard</b>                | No data available; aspiration-hazard classification is not applicable to the supplied solid based on available information. |
| <b>Additional information</b>           | Chemical, physical, and toxicological properties have not been fully investigated. Use good laboratory safety practice.     |

**Section 12 - Ecological Information**

Ecotoxicity: No data available. Persistence / degradability: No data available. Bioaccumulation: No data available. Mobility in soil: No data available. Other adverse effects: Avoid unnecessary environmental release.

**Section 13 - Disposal Considerations**

Product / residues: Dispose in accordance with applicable federal, state, and local requirements. Do not mix with incompatible waste streams. Contaminated packaging: Dispose in accordance with applicable requirements; handle uncleaned containers as product residue.

**Section 14 - Transport Information**

|                              |                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Transport status</b>      | Not regulated as dangerous goods under U.S. DOT (49 CFR), IATA, or IMDG based on currently available information. |
| <b>UN number</b>             | Not assigned.                                                                                                     |
| <b>Proper shipping name</b>  | Not assigned.                                                                                                     |
| <b>Hazard class</b>          | Not assigned.                                                                                                     |
| <b>Packing group</b>         | Not assigned.                                                                                                     |
| <b>Environmental hazards</b> | Not identified.                                                                                                   |
| <b>Special precautions</b>   | Handle in accordance with good laboratory and industrial hygiene practice.                                        |

**Section 15 - Regulatory Information**

|                                     |                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U.S. federal status</b>          | This document is prepared in consideration of OSHA HCS (29 CFR 1910.1200). No additional federal regulatory status is assigned here based on currently reviewed information. |
| <b>State / local considerations</b> | Users remain responsible for compliance with applicable regional requirements.                                                                                               |

Section 16 - Other Information

|                                |                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision                       | 2.4                                                                                                                                                 |
| Date of preparation / revision | 2026-09-05                                                                                                                                          |
| Revision summary               | Template reformatted to prevent text and border overlap; 9031 Gaithersburg address retained; no-logo MSDS format retained.                          |
| Data / assessment basis        | Alan Scientific product information; current supplier safety documentation; PubChem substance records where available; OSHA HCS (29 CFR 1910.1200). |

**Safety information notice:** Information is provided in good faith for safe handling of the supplied research material and is based on information reasonably available as of the revision date. It is not a product specification or warranty. Users are responsible for determining suitability, controls, and regulatory obligations for their specific use.