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### Section 1-Product information

Product name **Fmoc-L-Asn(Trt)-OH**  
Product Cat. No. C01547

### Section 2-Composition / information on ingredients

Substance/Preparation Substance.  
Ingredient Name N- $\alpha$ -Fmoc-N- $\gamma$ -trityl-L-asparagine  
CAS No. 132388-59-1  
SARA 313 No  
Formula  $C_{38}H_{32}N_2O_5$

### Section 3- Hazards identification

HMIS Rating  
Health 0  
Flammability 0  
Reactivity 0  
NFPA Rating  
Health 0  
Flammability 0  
Reactivity 0

### Section 4- First-aid measures

Oral Exposure If swallowed, wash out mouth with water provided person is conscious. Call a physician.  
Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.  
Dermal Exposure In case of contact, immediately wash skin with soap and copious amounts of water.  
Eye Exposure In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5- Fire-fighting measures

Autoignition Temp NA  
Flammability NA  
Extinguishing Media Suitable: water spray. Carbon dioxide, dry chemical powder, or appropriate foam.  
Firefighting  
Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s) Emits toxic fumes under fire conditions.

### Section 6- Accidental release measures

Procedure(s) of Personal Precaution(s) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.  
Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7-Handling and storage

Handling	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Suitable: Keep tightly closed. Store at 2-8°C

## Section 8-Exposure controls/personal protection

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal protective equipment	
Respiratory	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks.
Hand	Protective gloves.
Eye	Chemical safety goggles.
General Hygiene Measures	Wash thoroughly after handling.

## Section 9- Physical and chemical properties

Appearance		
Physical State	Solid	
Color	Faintly yellow	
Form	Powder	
Property	Value	At Temperature or Pressure
Molecular Weight	596.69	
pH	NA	
BP/BP Range	NA	
MP/MP Range	210°C	
Freezing Point	NA	
Vapor Pressure	NA	
Vapor Density	NA	
Saturated Vapor Conc.	NA	
SG/Density	NA	
Bulk Density	NA	
Odor Threshold	NA	
Volatile%	NA	
VOC Content	NA	
Water Content	NA	
Evaporation Temp.	NA	
Viscosity	NA	
Surface Tension	NA	
Partition Coefficient	NA	
Decomposition Temp	NA	
Explosion Limits	NA	
Flammability	NA	
Autoignition Temp	NA	
Refractive Index	NA	
Optical Rotation	Degree of Rotation: 10 g/L Solvent: MeOH -17.5 - -14.5 (±1)	
Miscellaneous Data Solubility	NA	
Solubility	NA	

## Section 10- Stability and reactivity

Stability	
Stable	Stable.
Materials to Avoid	Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization	Hazardous Polymerization: Will not occur.

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## Section 11- Toxicological information

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Route to Exposure	
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.

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## Section 12- Ecological information

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### Section 13- Disposal considerations

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Appropriated Method of Disposal of substance or Preparation	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environment regulations.
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## Section 14- Transport information

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DOT	
Proper Shipping Name	None.
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.
IATA	
Non-Hazardous for Air Transport	Non-hazardous for air transport.

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## Section 15- Regulatory information

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United States Regulatory Information	
SARA Listed	No.
Canada Regulatory Information	
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL	No.
NDSL	No.

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## Section 16- Other information

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GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.