



	Identification
	Product identifier Product name: N-Fmoc-3-(3-pyridyl)-L-alanine
	Stock number: H52056 CAS Number:
	175453-07-3 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
	Details of the supplier of the safety data sheet Manufacturer/Supplier:
	Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
	Ward Hill, MA 01835-8099 Tel: 800-343-0660
	Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com
	Information Department: Health, Safety and Environmental Department Emergency telephone number:
	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
	Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.
	Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled
	Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
	Health (acute effects) = 1 FIRE Flammability = 1 REACTIVITY Physical Hazard = 1
	Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
	Composition/information on ingredients
	Chemical characterization: Substances CAS# Description: 175453-07-3 N-Fmoc-3-(3-pyridyl)-L-alanine
4	First-aid measures
	Description of first aid measures After inhalation
	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor
	Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.
	Fire-fighting measures
	Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Advice for firefighters
	Protective equipment: Wear self-contained respirator.
6	Wear fully protective impervious suit. Accidental release measures
-	Personal precautions, protective equipment and emergency procedures
	Wear protective equipment. Keep unprotected persons away.
	Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.
	Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling

See Section 7 for information on safe handling

Product name: N-Fmoc-3-(3-pyridyl)-L-alanine				
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See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment.			
7 Handling and storage				
Handling Precautions for safe handling				
Keep container tightly sealed. Store in cool, dry place in tightly closed of	containara			
Information about protection against	explosions and fires: No information known.			
Conditions for safe storage, including	g any incompatibilities			
Storage Requirements to be met by storeroom	ns and receptacles: No special requirements.			
Information about storage in one com Further information about storage co	nmon storage facility: Store away from oxidizing agents. nditions:			
Keep container tightly sealed. Store in cool, dry conditions in well seale				
Specific end use(s) No further relevant	information available.			
8 Exposure controls/personal prote	ection			
Additional information about design of Property operating chemical type bood	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.			
Control parameters				
Components with limit values that require monitoring at the workplace: Not required. Additional information: No data				
Exposure controls				
Personal protective equipment General protective and hygienic meas	sures			
The usual precautionary measures for ha	andling chemicals should be followed.			
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	thing immediately.			
Wash hands before breaks and at the er Maintain an ergonomically appropriate w	nd of Work. vorking environment. pirator when high concentrations are present.			
Breathing equipment: Use suitable res Protection of hands:	pirator when high concentrations are present.			
Impervious aloves				
The selection of suitable gloves not only	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Penetration time of glove material (in Eye protection: Safety glasses	minutes) Not determined			
Body protection: Protective work clothing.				
9 Physical and chemical properties				
Information on basic physical and che General Information	emical properties			
Appearance: Form:	Powder			
Color:	White			
Odor: Odor threshold:	Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range:	Not determined			
Boiling point/Boiling range:	Not determined Not determined			
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.			
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined			
Auto igniting:	Not determined Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density:	Not determined Not determined			
Relative density Vapor density	Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water):	Not determined			
Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known				
Chemical stability Stable under recomm	mended storage conditions. t o be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions No	o dangerous reactions known			
Conditions to avoid No further relevant Incompatible materials: Oxidizing ager	t information available.			
Hazardous decomposition products:				

Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

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erial is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. e and chronic toxicity of this substance is not fully known.		
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12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
None		
None		
None		
None		
Not applicable.		
Not applicable.		
de Not applicable.		
Not dangerous according to the above specifications.		
No		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements. Not applicable Hazard pictograms Not applicable Hazard statements. Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency. Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict to research and development only. This product must be used by offer offe		

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16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

ID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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)
IMDG: International Civil Aviation of the American Chemical Society)
HMIS: Hazardous Materials Information System (ISA)
WHIMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
VPWs very Persistent and very Bioaccumulative
ACGIH: American Chernental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMTP: National Toxicology Program (USA)
IATE: International Air and the Administration (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA