



1 Identification Product identifier	
Product name: N-Fmoc-3-(4-pyridyl)-D-alanine	
Stock number: H52193 CAS Number: 205528-30-9	
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	
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.	╡
2 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       1         FIRE       0         Flammability = 1         REACTIVITY       1         Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	٦
Chemical characterization: Substances CAS# Description: 205528-30-9 N-Fmoc-3-(4-pyridyl)-D-alanine	
4 First-aid measures	٦
Description of first aid measures After inhalation Supply fraction in the required provide artificial respiration. Keep patient warm	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. <b>After skin contact</b>	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. <b>After eye contact</b> Rinse opened eye for several minutes under running water. Then consult a doctor.	
After śwallowing Seek medical tréatment. 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.	
5 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	
Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	╡
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation <b>Example</b> in the second of the	
Preventions 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

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Product name: N-Fmoc-3-(4-pyridyl)	)-D-alanine	(2) . (1 . ( ))
See Section 8 for information on person See Section 13 for disposal information	nal protection equipment.	(Contd. of page 1)
7 Handling and storage		
Handling Precautions for safe handling		
Keep container tightly sealed. Store in cool, dry place in tightly closed	containers	
Information about protection against	explosions and fires: No information known.	
Conditions for safe storage, including Storage	g any incompatibilities	
Requirements to be met by storeroor	ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents.	
Further information about storage co Keep container tightly sealed.	nditions:	
Store in cool, dry conditions in well seal Specific end use(s) No further relevant	led containers.	
8 Exposure controls/personal prot Additional information about design		
Properly operating chemical fume hood	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that re- Additional information: No data	quire monitoring at the workplace: Not required.	
Exposure controls		
Personal protective equipment General protective and hygienic mea	sures	
The usual precautionary measures for h Keep away from foodstuffs, beverages Remove all soiled and contaminated clo	nangling chemicals should be followed. and feed.	
Wash hands before breaks and at the e	end of work.	
Maintain an ergonomically appropriate v	working environment. spirator when high concentrations are present.	
Protection of hands: Impervious gloves		
Check protective gloves prior to each us	se for their proper condition. y depends on the material, but also on quality.  Quality will vary from manufacturer to manufacturer.	
Penetration time of glove material (in	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eye protection: Safety glasses Body protection: Protective work cloth	ing.	
9 Physical and chemical properties	s	
Information on basic physical and ch		
General Information Appearance:		
Form: Color:	Powder 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	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not determined	
Density: Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:		
dynamic: kinematic:	Not applicable.	
Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recom	mended storage conditions. <b>to be avoided:</b> 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 relevan Incompatible materials:		
Oxidizing agents No further relevant information available	Э.	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		(Contd. on page 3)
		USA

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Product name: N-Fmoc-3-(4-pyridyl)-D-alanine		
Possibly Hydrogen cyanide (HCN)		(Contd. of page 2)
Reproductive foxicity: No effects known. Specific target organ system toxicity - repeated exposu Specific target organ system toxicity - single exposure: Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	operties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information Bioaccumulative potential No further relevant information Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment with Do not allow undiluted product or large quantities to reach g 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.	available. hout proper governmental permits. ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulation Uncleaned packagings: Recommendation: Disposal must be made according to of		
<b>14 Transport information</b> Not a hazardous material for transportation.		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/7		
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
product must not be used for commercial purposes or in fon SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance i Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by tech Other regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to t	on Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this p sed by or directly under the supervision of a technically qualified individual as defined b mulations for commercial purposes. stance is not listed. is not listed. listed. listed. nically qualified individuals. 15 the REACH Regulations (EC) No. 1907/2006. Substance is not listed. nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturin risation for use) Substance is not listed.	
		USA —

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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 Identification System (USA)
WHMIS: 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)
IMTe: National Toxicology Program (USA)
IATE: International Air Transport Goods (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA