Safety Data Sheet



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1 Identification	
Product identifier	
Product name: N-Fmoc-L-alanine N-succinimidyl ester	
Stock number: H66158 CAS Number: 73734 40.0	
73724-40-0 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	
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	
Information Department: Health, Safety and Environmental Department Emergency telephone number: During recent business hours, bours, forday, Friday, Barn, Tam, FST), and (2000), 242,0550, After named business hours, and Carachem 24 et (256),029,0	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0	1789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA 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)	
$\frac{1}{1} = \frac{1}{1} = \frac{1}$	
REACTIVIT I Physical Hazard = 1 Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 73724-40-0 N-Fmoc-L-alanine N-succinimidyl ester	
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Product name: N-Fmoc-L-alanine N-succinimidyl ester

(Contd. of page 1)

See Section 13 for disposal information.	ı.	(Contd. of page 1)	
7 Handling and storage			
Handling Precautions for safe handling Keep c Information about protection against	container tightly sealed. t explosions and fires: No information known.		
Conditions for safe storage, including any incompatibilities			
Storage Requirements to be met by storerooms and receptacles: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat			
Store away from oxidizing agents. Further information about storage co Specific end use(s) No further relevan	onditions: Keep container tightly sealed. It information available.		
8 Exposure controls/personal prote			
	of technical systems: I designed for hazardous chemicals and having an average face velocity of at least 100 f	feet per minute.	
Control parameters Components with limit values that ree The product does not contain any releva Additional information: No data	equire monitoring at the workplace: ant quantities of materials with critical values that have to be monitored at the workplace	е.	
Exposure controls Personal protective equipment General protective and hygienic mea			
The usual precautionary measures for h Keep away from foodstuffs, beverages a	The usual precedutionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.		
Remove all soiled and contaminated clo Wash hands before breaks and at the e	othing immediately. end of work.		
Maintain an ergonomically appropriate v Breathing equipment: Use suitable res	working environment. spirator when high concentrations are present		
Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:			
Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.			
9 Physical and chemical properties	· · · · · · · · · · · · · · · · · · ·		
Information on basic physical and ch General Information			
Appearance: Form:	Powder		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined Not determined Not determined Not determined		
Auto igniting: Danger of explosion:	Not determined. Not determined.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined		
Density:	Not applicable. Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water: Partition coefficient (n-octanol/water) Viscosity:	Water: Not determined 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.	1-d-t		
Conditions to avoid No further relevan	to be avoided: Decomposition will not occur if used and stored according to specification beacts with strong oxidizing agents.	ons.	
Incompatible materials:			

Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide

(Contd. on page 3) USA

Product name: N-Fmoc-L-alanine N-succinimidyl ester

21 10 . . .

Nitrogen oxides	(Contd. of page 2)
11 Toxicological information	
IT Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data	
Skin irritation or correction: May agues irritation	
Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No classification data on carcinogenic prop	erties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure: N	· No effects known
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	owledge the acute and chronic toxicity of this substance is not fully known.
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) S	Substance is not listed.
12 Ecological information	
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant informatio Bioaccumulative potential No further relevant information av Mobility in soil No further relevant information available. Additional ecological information:	n available. vailable.
General notes: Do not allow undiluted product or large quantities to reach gro Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable	
vPvB: Not applicable. Other adverse effects No further relevant information availab	Jle.
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations Uncleaned packagings: Recommendation: Disposal must be made according to offic	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 a	and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information	
15 Regulatory Information Safety, health and environmental regulations/legislation s	specific for the substance or mixture
GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable	
Hazard statements Not applicable	
to research and development only. This product must be used product must not be used for commercial purposes or in form. This product is not listed on the Canadian Domestic Substanc	Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. ses List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65	ance is not listed.
Prop 65 - Chemicals known to cause cancer Substance is r Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not l	listed.
Prop 65 - Developmental toxicity, male Substance is not list Information about limitation of use: For use only by technic	cally qualified individuals.
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the	REACH Regulations (EC) No. 1907/2006. Substance is not listed.

Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. (Contd. on page 4)

Product name: N-Fmoc-L-alanine N-succinimidyl ester

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 07/14/2016 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation Of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LDS0: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 3)

USA