



Reviewed on 11/30/2	2012
1 Identification	
Product identifier Product name: N-Fmoc-L-tyrosine	
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Stock number: H59967 CAS Number: 92954-90-0	
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 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	
<i>Information Department:</i> 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) (Usersteine Metericle Identification System)	'
(Hazardous Materials Identification System)	'
FRE I REACTIVITY 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: 92954-90-0 N-[(9H-Fluoren-9-ylmethoxy)carbonyl]-L-tyrosine	
4 First-aid measures	\dashv
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 immédiate 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.	
5 Fire-fighting measures	Τ
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) 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Motions and material for containment and cleaning up: Pick up mechanically.	
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 8 for information on personal protection equipment.	
(Contd. on pa	age 2)

Product name: N-Fmoc-L-tyrosine

See Section 13 for disposal information.		(Contd. of page 1)		
7 Handling and storage				
Handling Precautions for safe handling Keep cor	ntainer tightly sealed			
Information about protection against e	explosions and fires: No information known.			
Conditions for safe storage, including Storage	any incompatibilities			
Requirements to be met by storerooms Information about storage in one comm Protect from heat.				
Store away from oxidizing agents. Further information about storage con Keep container tightly sealed.	ditions:			
Refrigerate Specific end use(s) No further relevant i	information available.			
8 Exposure controls/personal prote	ction			
Additional information about design of Properly operating chemical fume hood d	f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.			
Control parameters Components with limit values that requent The product does not contain any relevar Additional information: No data	uire monitoring at the workplace: It quantities of materials with critical values that have to be monitored at the workplace.			
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.				
Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. 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.				
Penetration of suitable gioves not only of Penetration time of glove material (in r Eye protection: Safety glasses Body protection: Protective work clothin	ninutes) Not determined			
9 Physical and chemical properties				
Information on basic physical and che General Information	mical properties			
	Powder			
Color: Odor:	White Not determined			
Odor threshold:	Not determined.			
-	Not applicable.			
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature:	182-187 °C (360-369 °F) Not determined Not determined Not determined. Not determined			
Decomposition temperature:	Not determined Not determined.			
	Not determined.			
Lower:	Not determined			
Vapor pressure:	Not determined Not applicable.			
Density:	Not determined Not determined			
Vapor density	Not applicable.			
Solubility in / Miscibility with	Not applicable.			
Partition coefficient (n-octanol/water):	Not determined Not determined.			
Viscosity: dvnamic:	Not applicable.			
kinematic:	Not applicable. No further relevant information available.			

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide

(Contd. on page 3)

Product name: N-Fmoc-L-tyrosine

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Information on toxicological effects Acute existing: No effects known LDL CSV values that are relevant to clerification: No data Existing CSV values that are relevant to clerification Existing CSV values that are relevant to clerification Sensitization: No sensitizing effects known. Garringeguing: No effects known. Specific target organ system toxicity - repeated exposure. No effects known. Specific target organ system toxicity - repeated exposure. No effects known. Aspecific target organ system toxicity - repeated exposure. No effects known. Aspecific target organ system toxicity - repeated exposure. No effects known. Additional toxicological information in to the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Additional toxicological information in tormation available. Persistence and degradability No further relevant information available. Bioaccomulative potential Normation. Additional excercitive of the acute and chronic toxicity of this substance is not fully known. Additional excercitive potential Normation. Concil of allow urnificitied product or large quantities to reach ground wallable. Bioaccomulative potential Normation. Additional excercities to PDT and PB assessment Void transfer to the envinonment. Bioaccomulation.	Product name: N-Fmoc-L-tyrosine	
Information on toxicological effects Adda Society in effects form: Other Society in effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: General Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Sector Control in the effects form: Society in the effects form: Additional control in the effects form: Society in the effects form: Additional control in the effects form: Society in the effects form: Additional control in the effects form: Society in the effects form: Additional control in the effects form: Society in the effects form: Additional control in the effects form: Society in the effects form: Additional control in the effects form: Society form: Addition f	Nitrogen oxides	(Contd. of page 2)
Persistence and degradability No further relevant information available. Mobility in seases of the environment without proper governmental permits. Concent index and the product or large quantities to reach ground vater, water course or sewage system. Additional ecological information: Do not allow undiking a product or large quantities to reach ground vater, water course or sewage system. Persite the environment without proper governmental permits. Do not allow undiking a product or large quantities to reach ground vater, water course or sewage system. Persite the sewage system of the anomalian available. Do not allow undiking product or large quantities to reach ground vater, water course or sewage system. Persite to applicable. Do not allow undiking product or large quantities to reach ground vater, water course or sewage system. Persite to applicable. Do not allow undiking product or large quantities to reach ground vater, water course or sewage system. Persite the anomalian of the applicable or large the available. Do not allow undiking product and the available. Do not allow undiking product and the available. Tansport information Undiking product and the available of the available. Do not allow undiking product and the available of the available. Do not allow undiking product and the available of the available. Do not allow undiking product and the available of the available. Do not allow undiking product and product and the av	11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties 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: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aguatic toxicity: No further relevant information available.	
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. 11 Transport information UN-Moder Recommendation: Disposal must be made according to official regulations. 12 Transport information UN-Monter Recommendation: Disposal must be made according to official regulations. 13 Transport information UN-Moder Section State (Section 1973) Disposal must be made according to official regulations. 14 Transport hazard class(es) DOI: MOG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable. Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable. Transport/Additional information: DOT MOT Mot applicable Seletal precautions for user Transport/Additional information: DOT MOT Not Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chem	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.	
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	Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.	(Contd. on page 4)

Product name: N-Fmoc-L-tyrosine

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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 11/24/2015 / - Abbreviations and accoryms: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: 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) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 3)

USA