

Safety Data Sheet per OSHA HazCom 2012

		5/2010
1	1 Identification	
	Product identifier Product name: N-Fmoc-L-beta-homovaline	
	Stock number: H52182	
	CAS Number:	
	172695-33-9 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.	
	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.	
2	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 I 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.	
3	3 Composition/information on ingredients	
	Chemical characterization: Substances CAS# Description:	
	172695-33-9 N-Fmoc-L-beta-homovaline	
4	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.	
5	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	
	Protective equipment: Wear self-contained respirator	
	Wear fully protective impervious suit.	
6	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. 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 (Contd. on p	nage 21

		ewed 0/1 11/10/2010		
Product name: N-Fmoc-L-beta-homo	ovaline			
See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment.	(Contd. of page 1)		
Conditions for safe storage, including Storage Requirements to be met by storeroom Information about storage in one com Further information about storage cor	explosions and fires: No information known. • any incompatibilities • s and receptacles: No special requirements. • mon storage facility: Store away from oxidizing agents.			
Keep container tightly sealed. Store in cool, dry conditions in well seale Specific end use(s) No further relevant	ed containers. information available.			
8 Exposure controls/personal prote	ection			
Additional information about design o	f technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.			
Control parameters	uire monitoring at the workplace: Not required.			
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 time of glove material (in minutes) Not determined Eye protection: Safety glasses				
Body protection: Protective work clothing.				
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color:				
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: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined Not determined. Not applicable. Not applicable. Not applicable.			
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined Not determined. Not applicable. Not applicable. No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents No further relevant information available. Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	o be avoided : Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	(Contd. on page 3)		

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Product name: N-Fmoc-L-beta-homovaline				
Possibly Hydrogen cyanide (HCN)	(Contd. of page 2)			
 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 Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Aspiration hazard: No effects known. Automation hazard: 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 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 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.				
14 Transport information 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 MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information: Not dangerous according to the above specifications. DOT DOT				
Marine Pollutant (DOT): 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 Hazard statements Not applicable Hazard statements 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 restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity for the Substance is not listed. Prop 65 - Developmental toxicity for the Substance is not listed. Prop 65 - Developmental toxicity for the Substance is not listed. Prop 65 - Developmental toxicity for the Substance is not listed. Prop 65 - Developmental toxicity for the Substance is not listed. Prop 65 - Developmental toxicity for the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to the REACH Regulations (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV o				

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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