

(Contd. on page 2)

	Neviewed 01/07/172014
1	Identification Product identifier
	Product name: N-Fmoc-L-alpha-phenylglycine
	Stock number: H63017 CAS Number:
	102410-65-1 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.
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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 FRE I FRE I FRESTRITY[] 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: 102410-65-1 N-Fmoc-L-alpha-phenylglycine
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	Fire-fighting measures Extinguishing media Suitable avtinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
	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 Example 1 Example 1 Ensure and Example 2 Environmental precautions: Do not allow product to reach sewage system or any water course. 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 page 2)

Product name: N-Fmoc-L-alpha-phenylglycine

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See Section 13 for disposal information.

7 Handling and storage

Handling

Precautions for safe handling Keep container tightly sealed. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information_about storage in one common storage facility: Store away from air. Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. Keep container tightly sealed. Refrigerate

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: 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 require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data 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.

Waish 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. 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. Material of gloves Nitrile rubber, NBR

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 chemical properties **General Information**

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Form: Powder Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined Auto igniting: Not determined. Danger of explosion: Explosion limits: Not determined. Lower: Not determined Upper: Not determined Vapor pressure: Density: Relative density Not applicable. Not determined Not determined. Vapor density Evaporation rate Solubility in / Miscibility with Not applicable. Not applicable. Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable. kinematic: Other information 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.

Conditions to avoid No further relevant information available.

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Incompatible materials: (Contd. of page 2) Automiting agonts Control in products: Carbon manaxies and carbon diaxide Control in products: Carbon manaxies and carbon diaxide Control in products: Carbon manaxies and carbon diaxide Control in products: Toxicological information Information on toxicological effects Information on toxicological effects Control information Value toxicity: No effects known. Specific target optan system toxicity - repeated exposure: No effects known. Specific target optan system toxicity - repeated exposure: No effects known. Specific target optan system toxicity - repeated exposure: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Ecological information: Zoticity: No utther relevant information available. Ecological information: Persistence and segradability No turber relevant information available. Ecological information: Ecological information: Additional ecological information: Specific target and they addability. Ecological information: Additional ecological information: Specific target and target and by the sessment information available. Ecological information: <
Air of the second se
Heat
Hazardous decomposition products: Sarbon monoxide and carbon dioxide Nitrogen oxides Posticological information Information on toxicological offects Acute toxicity: No effects known. LDALCSO values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Eye irritation or corrosion: data cause irritation Eye irritation or corrosion: May cause irritation Serie and mutagenicity: No effects known. Carcinogenicity: No effects known. Subgrate to chronic toxicity: No further relevant information available. Persistence and degradability: No further relevant information available. Beaccommutative potential No further relevant information available. Boaccommutative potential No further relevant information available. Constant on exel boaccommutation available. Persistence and edegradability No further relevant information available. On relative potential No further relevant information available. On rallow unditied product or largo quantilitis to reach ground water, water course or s
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LDLCSD values that are relevant for classification: No data Skin Irritation or corrosion: May cause imitation See stituation: No sensitizing 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 - repeated exposure: 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. Ecological information Toxicity Regraductive toxicity: No effects known. Additional toxicological information available. Persistence and degradability No further relevant information available. Regraductive toxicity: No further relevant information available. Regraductive boxicity: No further relevant information available. Additional ecological information: Do not allow undilude product or large quantities to reach ground water, water course or sewage system. Results of PT and wNe assessment PT: Not applicable. Other adverse effects No further relevant information available. Results of PT and wNe assessment PY: Not applicable. Other adverse effects No further relevant information available. Results of PT and wNe assessment PY: Not applicable. Other adverse effects No further relevant information available. Results of PT and wNe assessment PY: Not applicable. Other adverse effects No further relevant information available. Results of PT and wNe assessment PY: Not applicable. Other adverse effects No further relevant information available. The adverse effects No further relevant information available. Results of PT and wNe assessment PY: Not applicable. Other adverse effects No further relevant information available. Results of PT and wNe assessment PY: Not applicable. The adverse effects No further relevant information available. The adverse effects No
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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 and the IBC Code Not applicable. Not applicable.
Transport/Additional information:
DOT
Marine Pollutant (DOT): No UN "Model Regulation": -
UN "Model Regulation": -
5 Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture
GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable
Signal word 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.
I his product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicitý, male Substance is not listed. Information about limitation of use: For use only by technically 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.
(Contd. on page 4)

Product name: N-Fmoc-L-alpha-phenylglycine

(Contd. of page 3) 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. 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 acronyms: ADR: Accord europeen 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 concentration, 50 percent LD50: Lethal concentration of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA