

# Thermo Fisher

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	Version 2		
1 Identification			
Product identifier			
Product name: N-Fmoc-4-iodo-L-phenylalanine			
Stock number: H51977 CAS Number: 82565-68-2 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.		
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)			
(Hazardouš Materials Identification System)         IEALTH I         IEALTH I <td colspan="2" i<<="" iealth="" td=""><td></td></td>	<td></td>		
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.			
3 Composition/information on ingredients			
Chemical characterization: Substances CAS# Description: 82565-68-2 N-Fmoc-4-iodo-L-phenylalanine Concentration: ≤100%			
4 First-aid measures			
Description of first aid measures			
<b>After inhalation</b> 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 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			
Hydrogen iodide (HI) 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 Ensure adequate ventilation 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.			
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Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

### 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 any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store in the dark. Store away from oxidizing agents. Further information about storage conditions: Keep container firstly seeled. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from exposure to light. 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 equipment 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 ergometrically appropriate working any ironment

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. Use suitable respiratory protective device in case of insufficient ventilation. 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: Imperving gloves

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 with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

#### 9 Physical and chemical properties

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Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Powder 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:	213-217 °C (415-423 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Danger of explosion: Explosion limits:	Not determined.
Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Not determined Not determined Not applicable. Not determined Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined.
dynamic: kinematic:	Not applicable. Not applicable.
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Other information No further relevant informat	tion available.	
0 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decompositio Possibility of hazardous reactions Reacts with strong oxidizing age Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen iodide (HI) Nitrogen oxides	on will not occur if used and stored according to specifications. ents	
1 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 o	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 eff	fects known	
Specific target organ system toxicity - single exposure: No effect		
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge	e the acute and chronic toxicity of this substance is not fully known.	
2 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. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground wa 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.	9.	
3 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensu Uncleaned packagings: Recommendation: Disposal must be made according to official regu		
4 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA		
DOT, ADR, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	Not applicable	
5 Regulatory information Safety, health and environmental regulations/legislation specific GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	c for the substance or mixture	(C
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# Product name: N-Fmoc-4-iodo-L-phenylalanine

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USA

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. This 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 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, 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. 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.

The Conditions of restrictions according to Article of and Annex XVI of the Regulation (EQ) is 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this 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/Revision: Print date, revision date and version number are in the header of each page. Abbreviations and accomyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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 DE0: US percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ACGIH: American Abstration (USA) MTP: National Toxicotogy Program (USA) MTP: National Toxicotogy Program (USA) MTP: National Toxicotogy Program (USA) MTP: Marional Toxicotogy Program (USA)