



	1 Identification Product identifier Product name: N-Benzyloxycarbonyl-D-alanine	
	Stock number: L08382 CAS Number: 26607-51-2	
	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) 928-0 During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.	0789.
2	2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
	The substance of the substance of mixture in 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 I FIRE I FREACTIVITY 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: 26607-51-2 N-Benzyloxycarbonyl-D-alanine	
	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 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. 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)
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See Section 13 for disposal information.

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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 away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.			
Additional information about design o Properly operating chemical fume hood c Control parameters	osure controls/personal protection ional information about design of technical systems: orly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. of parameters onents with limit values that require monitoring at the workplace: Not required.		
Additional information: No data			
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot. Wash hands before breaks and at the en Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp Protection of hands: Impervious dloves	nal protective equipment al protective and hygienic measures sual precautionary measures for handling chemicals should be followed. away from foodstuffs, beverages and feed. ve all soiled and contaminated clothing immediately. hands before breaks and at the end of work. in an ergonomically appropriate working environment. hing equipment: Use suitable respirator when high concentrations are present. ction of hands: vious gloves		
The selection of suitable gloves not only Penetration time of glove material (in I Eye protection: Safety glasses	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		
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: _ Color:	Powder White		
Odor: Odor threshold:	Not determined Not determined.		
	Not applicable.		
Boiling point/Boiling range:	83-84 °C (181-183 °F) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density:	Product does not present an explosion hazard. Not determined Not applicable. Not applicable. Not determined		
Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined. Not applicable. Not applicable. Insoluble		
Viscosity: dvnamic:	Not occommed. 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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides			

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is material is available from the EPA, IARC, NTP, OSHA or ACGIH. s known. nown. e acute and chronic toxicity of this substance is not fully known.		
e. overnmental permits.		
3 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.		
None		
None		
None		
NOID		
None		
Not applicable.		
Not applicable.		
C Code Not applicable.		
Not dangerous according to the above specifications.		
No		
r the substance or mixture oxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted city under the supervision of a technically qualified individual as defined by TSCA. This commercial purposes. Isted. ed individuals. Regulations (EC) No. 1907/2006. Substance is not listed. //I of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ise) Substance is not listed. been carried out.		

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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 con Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent US0: very Persistent and very Bioaccumulative ACGIH: American Conference 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)

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