

# Safety Data Sheet per OSHA HazCom 2012

per OSHA HazCom 2012 Printing Reviewe	date 11/24/2015 ed on 07/28/2014
1 Identification Product identifier Product name: <u>4-Chloro-DL-phenylalanine methyl ester hydrochloride</u> Stock number: H63260	
CAS Number: 14173-40-1 EC number: 238-024-0	
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 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) 928-03 	789.
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         FIRE       I         FREACTIVITY       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: 14173-40-1 4-Chloro-DL-phenylalanine methyl ester hydrochloride Identification number(s): EC number: 238-024-0	
4 First-aid measures Description of first aid measures After inhalation Superior description description for the provide addition of the provided	
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) Hydrogen chloride (HCl) <b>Advice for firefighters</b> <b>Protective equipment:</b> 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 advante variation	
Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course.	(Contd. on page 2) USA

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Methods and material for containment ar Prevention of secondary hazards: No spe Reference to other sections See Section 7 for information on safe handl See Section 8 for information on personal p See Section 13 for disposal information.		(Contd. of page 1)		
7 Handling and storage				
Handling Precautions for safe handling Keep conta	ainer 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 a Information about storage in one commo Protect from heat. Store away from oxidizing agents.	and receptacles: Store in freezer (-20 °C).			
Further information about storage condit Specific end use(s) No further relevant info	i <b>tions:</b> Keep container tightly sealed. iormation available.			
8 Exposure controls/personal protecti				
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.				
Keep away from foodstuffs, beverages and Remove all soiled and contaminated clothin	l feĕd. ig immediately.			
Wash hands before breaks and at the end of Maintain an ergonomically appropriate work <b>Breathing equipment:</b> Use suitable respira	or work. king environment. ator when high concentrations are present			
Protection of hands: Impervious gloves				
Check protective gloves prior to each use for The selection of suitable gloves not only de	or their proper condition. pends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Eve protection: Safety glasses	nutes) Not determined			
Body protection: Protective work clothing.				
9 Physical and chemical properties Information on basic physical and chemical properties				
General Information Appearance:	- 11-1			
Odor: No	olid ot determined ot determined.			
	ot applicable.			
Change in condition Melting point/Melting range: 18	86-189 °C (367-372 °F) (dec)			
Boiling point/Boiling range: No	of determined of determined			
Flammability (solid, gaseous) No	ot determined. ot determined			
Decomposition temperature: No	ot determined ot determined.			
Danger of explosion: No Explosion limits:	ot determined.			
Lower: No	ot determined ot determined			
Vapor pressure: No	of applicable. of determined			
Relative density No	of determined. of applicable.			
	ot applicable.			
	ot determined ot determined.			
Viscosity: dynamic: No	ot applicable.			
kinematic: No	ot applicable. o 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 (Contd. on page 3				

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Hazardous decomposition products:

(Contd. of page 2)

Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	
Hydrōgen chloride (HCl)	
Subacute to chronic toxicity: The Registry of Toxic Effects of Cl	es of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. I Substances (RTECS) contains reproductive data for this substance. ) effects known. ffects known. chemical Substances (RTECS) contains multiple dose toxicity data for this substance. dge 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 availa Mobility in soil No further relevant information availa Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground 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.	
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local or national regulations to e Uncleaned packagings: Recommendation: Disposal must be made according to official re	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, 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	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	Νο
UN "Model Regulation":	
to research and development only. This product must be used by	ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ons for commercial purposes. List (DSL) or the Canadian Non-Domestic Substances List (NDSL). e 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, 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. Substance is not listed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. (Contd. on page 4)

(Contd. of page 3)

USA

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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 acronyms: 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 EINECS: European Inventory of Existing Commercial Chemical Substances 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 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)