

Safety Data Sheet per OSHA HazCom 2012

1	Identification Product identifier		
	Product name: O-Benzyl-L-tyrosine methyl ester hydrochloride		
	Stock number: H63908 CAS Number: 34805-17-9		
	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. 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 according to the Globally Harmonized System (GHS).		
	Hazards not otherwise classified No information known.		
	GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable		
	Hazard statements Not applicable WHMIS classification Not controlled Classification system		
	(Hazardous Materials Identification System)		
	HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1		
	Other hazards Results of PBT and vPvB assessment		
	PBT: Not applicable.		
	vPvB: Not applicable.		
3	Composition/information on ingredients		
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See Section 8 for information on personal protection equipment.

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See Section 8 for information on personal protection equipment. 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	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: Protect from heat.				
Store away from oxidizing agents. Further information about storage conditions: 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. Known for the first for the first for the start of the st				
Keep awa'y 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 us The selection of suitable gloves not only	e for their proper condition. (depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Penetration time of glove material (in Eye protection: Safety glasses	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			
Body protection: Protective work clothing.				
9 Physical and chemical properties				
Information on basic physical and chemical properties General Information				
Appearance:	Solid			
Form: Odor: Odor throshold:	Solid Not determined Not determined			
Odor threshold: pH-value:	Not determined. Not applicable.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined			
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.			
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity Reactivity No information known				
Reactivity No information known				
Reactivity No information known	nended storage conditions.			
Reactivity No information known. Chemical stability Stable under recoming Thermal decomposition / conditions to Possibility of hazardous reactions Research and the state of the stateo	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents			
Reactivity No information known. Chemical stability Stable under recomi Thermal decomposition / conditions t	acts with strong oxidizing agents			

Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

Product name: O-Benzyl-L-tyrosine methyl ester hydrochloride

Hydrogen chloride (HCl)	(Contd. of page 2)	
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 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. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: 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.		
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 UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group	Not applicable	
Packing group DOT, IMDG, IATA Environmental hazards: Special precautions for user	Not applicable Not applicable. Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod		
Transport/Additional information: DOT		
Marine Pollutant (DOT): UN "Model Regulation":	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 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 for orignmetrial 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. 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, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity female Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations and prohibitive regulations Substance of Very Hi		
Chemical safety assessment: A Chemical Safety Assessment has not been	carried out.	

Product name: O-Benzyl-L-tyrosine methyl ester hydrochloride

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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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and accoryms: 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 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) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA