

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier	
Product identifier Product name: <u>beta-Alanine methyl ester hydrochloride</u>	
Stock number: H27483 CAS Number:	
3196-73-4 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	ormal 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 HC The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	s)
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 1 Health (acute effects) = 1 FIRE 1 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	
Chemical characterization: Substances CAS# Description:	
3196-73-4 beta-Alanine methyl ester hydrochloride	
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 consul After swallowing Seek medical treatment.	a doctor.
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant infor Indication of any immediate medical attention and special treatment needed No furthe	nation available.
5 Fire-fighting measures	reievant IIIIOIIIiatioir available.
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:	larger mes with water spray of alconor resistant roam.
Carbon monoxide and carbon dióxide Nitrogen oxides (NOx) Hydrogen chloride (HCI)	
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 withon Methods and material for containment and cleaning up: Pick up mechanically.	ut proper governmental permits.
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 persona	al protection equipment.	(Contd. of page
See Section 13 for disposal information.		
7 Handling and storage		
Handling Brocoutions for cofe bandling		
Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed c		
Information about protection against e	explosions and fires: No information known.	
Conditions for safe storage, including	n any incompatibilities	
Storage Requirements to be met by storeroom	as and receptacles: No special requirements.	
Information about storage in one com	mon storage facility: Store away from oxidizing agents.	
Further information about storage con	nditions:	
Keep container tightly sealed. Store in cool, dry conditions in well seale	ed containers.	
Specific end use(s) No further relevant	information available.	
8 Exposure controls/personal prote		
Additional information about design o Properly operating chemical fume hood of	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters		
Additional information: No data	uire monitoring at the workplace: Not required.	
Exposure controls Personal protective equipment		
Personal protective equipment General protective and hygienic meas	sures	
The usual precautionary measures for ha Keep away from foodstuffs, beverages a	andling chemicals should be followed.	
Remove all soiled and contaminated clot	nd teed. hina immediately	
Wash hands before breaks and at the en	nd of work.	
Maintain an ergonomically appropriate w	vorking environment.	
Protection of hands:	pirator when high concentrations are present.	
Impervious gloves		
Check protective gloves prior to each use	e for their proper condition.	
The extension of sinitable' glaves not only	denerate on the meterial but also an quality. Quality will very from many facturer to many facturer	
The selection of suitable gloves not only Penetration time of glove material (in)	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
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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 Product name: beta-Alanine methyl ester hydrochloride

(Contd. of page 2) Hydrogen chloride (HCI) 11 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. Second sectors in the internation of the internet of the properties of the international Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Aspiration hazard: 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 material to be released to the environment without proper governmental permits. 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 Not a hazardous material for transportation **UN-Number** DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None Transport hazard class(es) DOT, ADR, IMDG, IATA Class None Packing group DOT, IMDG, IATA None 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. Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): 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 Signal word Not applicable Hazard statements 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. 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 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 another bacteria.

market and use must be observed.

Substance is not liste

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.

USA (Contd. on page 4)

Product name: beta-Alanine methyl ester hydrochloride

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(Contd. of page 3)

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 user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 /
Abbreviations and acronyms:

ID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAC: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG: International Civil Aviation of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
VPWs very Persistent and very Bioaccumulative
ACGIH: American Chernetal Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMTP: National Toxicology Program (USA)
IATE: International Air and the Administration (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA