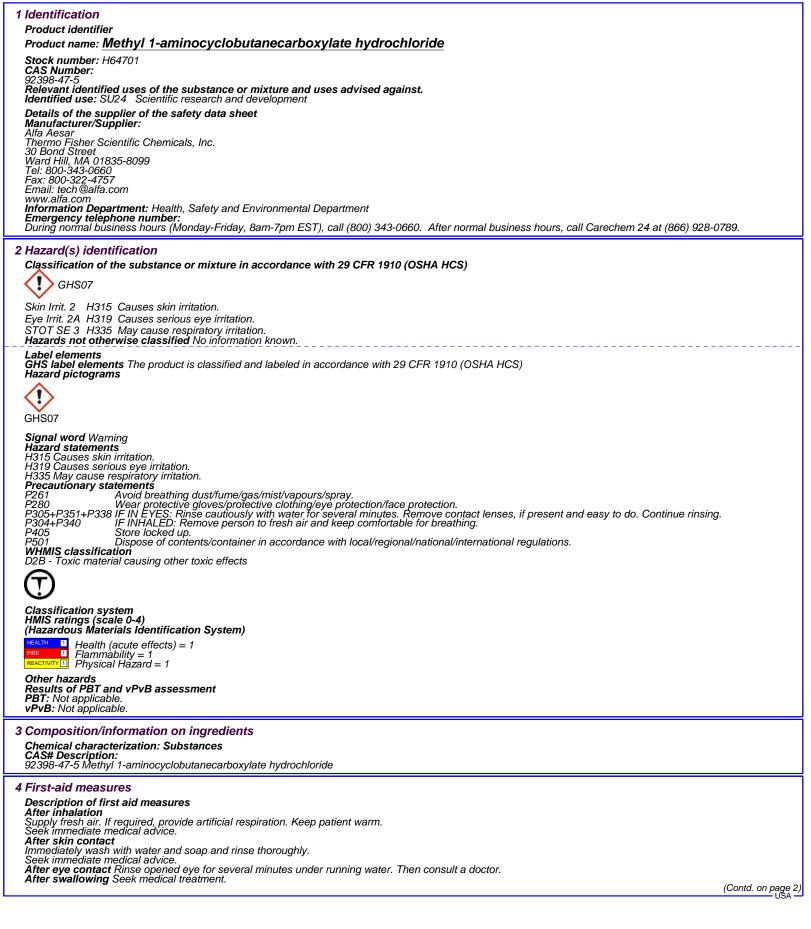


Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

Product name: Methyl 1-aminocyclobutanecarboxylate hydrochloride

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 (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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. 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. See Section 13 for disposal information.

7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. 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 air. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **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

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. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Meintain an ergenomically conception working onvironment

Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. **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:**

Impervious gloves

Impervious gioves 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 Body protection: Protective work clothing.

9 Physical and chemical properties			
Information on basic physical and c General Information Appearance: Form: Odor: Odor threshold:	semical properties Solid Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range:	Not determined		
	(Contd.on.	nana 3)	

Product name: Methyl 1-aminocyclobutanecarboxylate hydrochloride

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Product name: INIethyl 1-aminocyclo	butanecarboxylate hydrochloride	
		(Contd. of page 2)
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recom	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re	arts with strong ovidizing agents	
Conditions to avoid No further relevant	tinformation available.	
Incompatible materials:		
Air		
Oxidizing agents		
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		
Hydrogen chloride (HCl)		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for c	assification: No data	
Skin irritation or corrosion: Causes sk	kin irritation.	
Eye irritation or corrosion: Causes serious eye 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 - single exposure: May cause respiratory irritation.		
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effec	ts known. To the best of our knowledge the courts and abranic toxicity of this substance is not fully 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 inf	ormation available	
Persistence and degradability No furth	arrial of available.	
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:	supertities to reach ground water, water course or courses and the	
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.		
Avoid dansier mito die environment. Results of PBT and vPvB assessment		
PBT: Not applicable		
vPvB: Not applicable.		
Other adverse effects No further releva	int 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 m	ade according to official regulations.	
14 Transport information		
UN-Number	Notanaliaahla	
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	Not applicable	
		(Contd. on page 4,

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Product name: Methyl 1-aminocyclobutanecarboxy	ylate hydrochloride
	(Contd. of page 3)
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/7	78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marina Ballutant (DOT):	N/-
Marine Pollutant (DOT): UN "Model Regulation":	
15 Regulatory information	
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled in Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P304+P340 IF INHALED: Remove person to fresh air P405 Store locked up. P501 Dispose of contents/container in accorda National regulations This product is not listed in the U.S. Environmental Protectic to research and development only. This product must be use product must not be used for commercial purposes or in forr This product is not listed on the Canadian Domestic Substan SARA Section 313 (specific toxic chemical listings) Subs California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed on Prop 65 - Developmental toxicity substance is not listed on the Canadian Domestic States of the properiod	ing/eye protection/face protection. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. dance with local/regional/national/international regulations. tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This immulations for commercial purposes. ances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). bstance is not listed.
Prop 65 - Developmental toxicity, male Substance is not I Information about limitation of use: For use only by techn Other regulations, limitations and prohibitive regulation	t listed. nnically qualified individuals. ns the REACH Regulations (EC) No. 1907/2006. Substance is not listed. nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in com	nt to other information gathered by them, and should make independent judgement of suitability of this d safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.
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 Rot DOT: US Department of Transport des marchandises dangereuses par Rot DOT: US Department of Transport des marchandises dangereuses par Rot DOT: 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 cose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) 0SHA: Occupational Safety and Health Administration (USA) WIF: Wairpal Toxicolong Program (USA)	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road))

OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA