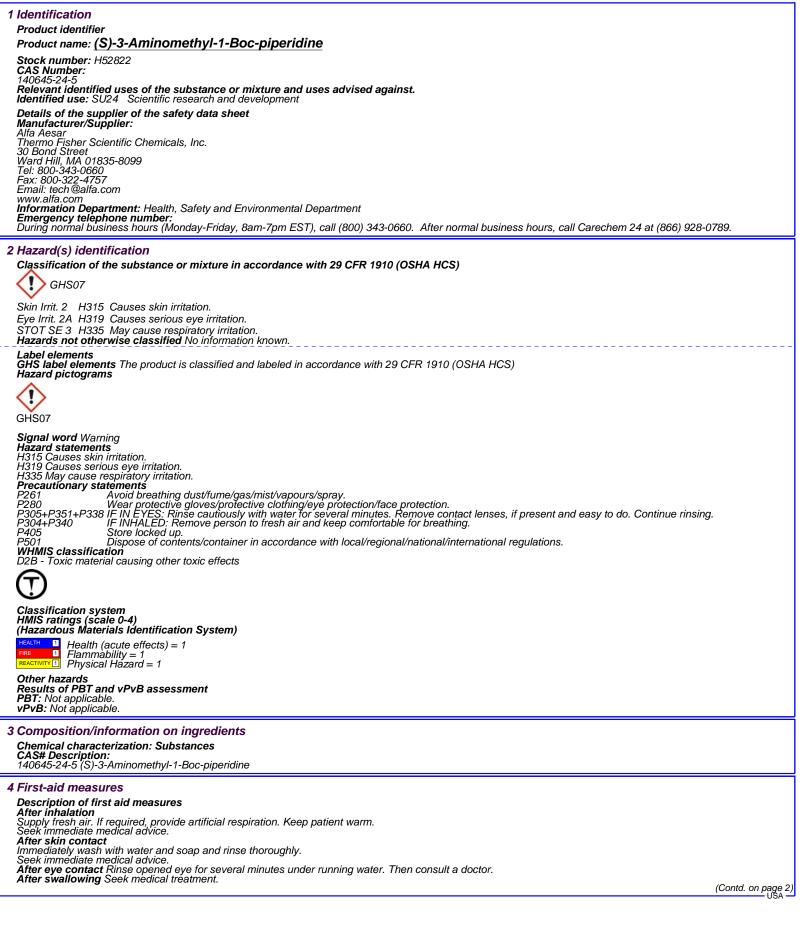


Safety Data Sheet per OSHA HazCom 2012



Product name: (S)-3-Aminomethyl-1-Boc-piperidine

(Contd. of page 1) 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) Possibly Hydrogen cyanide (HCN) 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 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. 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 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 oxidizing agents. Further information about storage conditions: 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: Not required. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable 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 **Eye protection:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Colorless Not determined Odor: Odor threshold: Not determined pH-value: Not determined Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Not determined Not determined Not applicable. Ignition temperature Not determined

(Contd. on page 3)

Product name: (S)-3-Aminomethyl-1-Boc-piperidine

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		(Contd. of page 2)
Decomposition temperature:	Not determined	
Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.	
Explosion limits: Lower:		
Upper:	Not determined Not determined	
Vapor pressure: Density:	Not determined Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
A Stability and reactivity		
O Stability and reactivity Reactivity No information known.		
Chemical stability Stable under recom	to be avoided: Decomposition will not occur if used and stored according to specifications.	
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for o		
Skin irritation or corrosion: Causes skin irritation or corrosion: Causes se		
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	own.	
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know Specific target organ system toxicity	n. - repeated exposure: No effects known.	
Specific target organ system toxicity	- single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	ts known. 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 Persistence and degradability No further Bioaccumulative potential No further in Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t	her relevant information available. elevant information available. mation available. he environment without proper governmental permits.	
Do not allow undiluted product or large of Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessmen PBT: Not applicable.	t	
vPvB: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	ant information available	
13 Disposal considerations Waste treatment methods		
Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportat	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA	None	
Class Packing group	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	(Contd on non-
		(Contd. on page 4 USA -

Product name: (S)-3-Aminomethyl-1-Boc-piperidine		
	(Contd. of page 3)	
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 GHS label elements The product is classified and labeled Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements		
P261 Avoid breathing dust/fume/gas/mist/vap P280 Wear protective gloves/protective clothi P305+P351+P338 IF IN EYES: Rinse cautiously with water P304+P340 IF INHALED: Remove person to fresh a P405 Store locked up.	ing/eye protection/face protection. r for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P501 Dispose of contents/container in accord	lance with local/regional/national/international regulations.	
to research and development only. This product must be us product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Sub	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 rmulations for commercial purposes. bstance is not listed.	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is n Prop 65 - Developmental toxicity, male Substance is not		
Prop 65 - Developmental toxicity, male Substance is not Information about limitation of use: For use only by tech	listed. mically qualified individuals	
Other regulations, limitations and prohibitive regulation	ns ns 1 - Bandall Bandallana (ED) Na (2027/2020, October and Land	
market and use must be observed.	ns the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess	risation for use) Substance is not listed. ment has not been carried out.	
16 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in corr	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:	e e e e e e e e e e e e e e e e e e e	
RID: Regiement international concernant le transport des marchandises dange IATA-DGR: Dangerous Goods Regulations by the "International Air Transport ICAO: International Civil Aviation Organization ICAO: International Instructions by the "International Civil Aviation Organization IMDG: International Instructions by the "International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) (C50: Lethal concentration 5 D energent	ereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Association" (IATA) n" (ICAO)	
DOT: US Department of Transport Association		
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 dose, 50 percent		
LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative		
LD30. Letrain duse, 30 percent VPvB: 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) IABC: International Agency for Research on Cancer		
IAPC: International Agancy for Pasaarch on Cancor		

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)