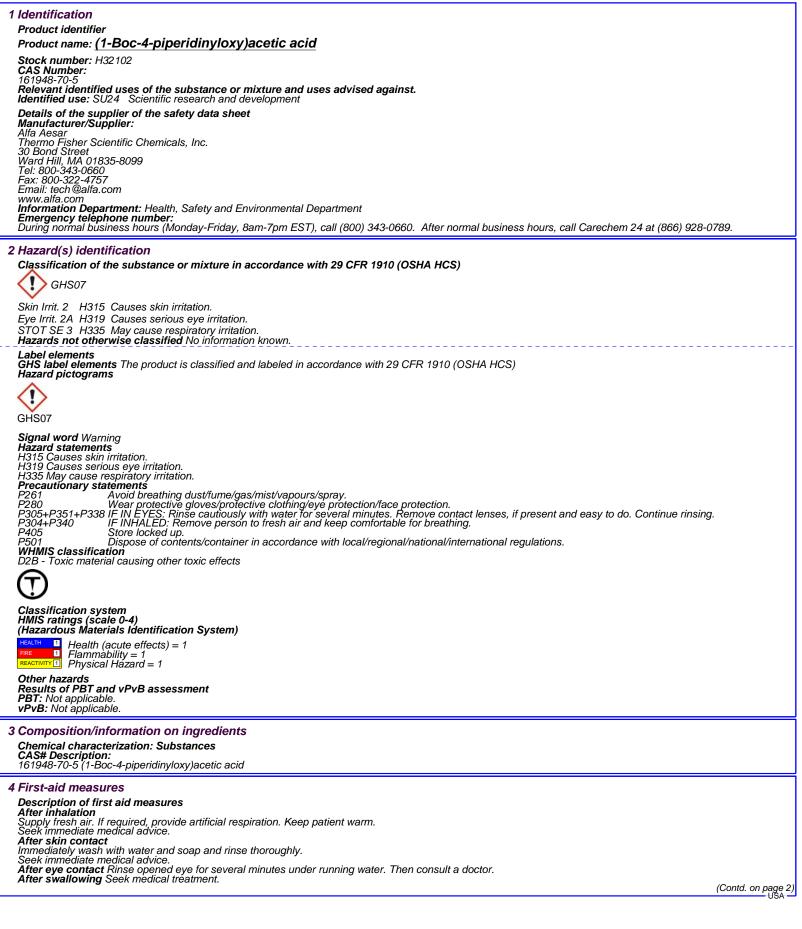


Safety Data Sheet per OSHA HazCom 2012



Product name: (1-Boc-4-piperidinyloxy)acetic acid (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) 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 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 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: 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. Wash hands before breaks and at the end of work. 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. **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 The protective gloves prior to each use for their proper condition. 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. **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: Color: Solid White to cream Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 105-107 °C (221-225 °F) Not determined Not determined Flammability (solid, gaseous) Not determined (Contd. on page 3)

Product name: (1-Boc-4-piperidinyloxy)acetic acid

Page 3/4 Printing date 11/24/2015 Reviewed on 09/22/2014

Ignition temperature:	(Contd. c	of page
ignition temperature.	Not determined	J. page
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:	Net defense for d	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density:	Not détermined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water	r): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recon	nmended storage conditions.	
	s to be avoided. Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions R Conditions to avoid No further releva	veacis with strong oxinizing agents in the formation of the strong strong oxinizing agents in the strong strong oxinizing agents in the strong s	
Incompatible materials: Oxidizing age	ients	
Hazardous decomposition products		
Carbon monoxide and carbon dioxide		
Nitrogen oxides		
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for		
Skin irritation or corrosion: Causes s		
Eye irritation or corrosion: Causes s		
Sensitization: No sensitizing effects ki Germ cell mutagenicity: No effects ki	nown	
Carcinogenicity: No classification dat	in orm. It on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kno	own.	
Specific target organ system toxicity	y - repeated exposure: No effects known.	
Aspiration hazard: No effects known.	y - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effe	acts known	
Additional toxicological information	: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information		
2 Ecological information		
Toxicity	nformation available	
Aquatic toxicity: No further relevant in Persistence and degradability No fur	inormation available.	
Bioaccumulative potential No further	relevant information available.	
Mobility in soil No further relevant info		
Additional ecological information:		
Additional ecological information: General notes:		
Additional ecological information: General notes: Do not allow undiluted product or large Avoid transfer into the environment.	e quantities to reach ground water, water course or sewage system.	
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Safety Data Sheet per OSHA HazCom 2012

Page 4/4 Printing date 11/24/2015 Reviewed on 09/22/2014

Product name: (1-Boc-4-piperidinyloxy)acetic acid	
	(Contd. of page
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
 P405 Store locked up. P501 Dispose of contents/contained National regulations This product is not listed in the U.S. Environment to research and development only. This product product must not be used for commercial purpo This product is not listed on the Canadian Dome SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Developmental toxicity Substance i Prop 65 - Developmental toxicity, female Sub Prop 65 - Developmental toxicity, male Substance of Very High Concern (SVHC) acc The conditions of restrictions according to Amarket and use must be observed. 	[•] Substance is not listed. is not listed. bstance is not listed. only by technically qualified individuals. e regulations cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th iring Authorisation for use) Substance is not listed.
information to ensure proper use and protect the	a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in eet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Do Date of preparation / last revision 11/24/2015 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dang DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (U LC50: Lethal dose, 50 percent VPVB: very Persistent and very bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	5/-