



1 Identification	
Product identifier	
Product name: <u>1-Boc-3-piperidone</u> Stock number: L19276	
CAS Number:	
98977-36-7 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
	0700.
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.	
Label elements	
GHS label elements Not applicable Hazard pictograms 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 I Health (acute effects) = 1	
File     Flammability = 1       REACTIVITY1     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: 98977-36-7 1-Boc-3-piperidone	
Chemical characterization: Substances	
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Chemical characterization: Substances CASE Description: 98977-36-7 1-Boc-3-piperidone 4 First-aid measures Description of first aid measures After inhialation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediate medical advice. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any timmediate medical attention and special treatment needed No further relevant information available. Indication of any timmediate medical attention and special treatment needed No further relevant information available. Indication of any timmediate medical attention and special treatment needed No further relevant information available. 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 Personal precautions, protective equipment and emergency procedures Waar patierointament epiperiator. Wear fully protective impervicus suit. 6 Accidental release measures Personal precautions, no tallow material to be released to the environment without prop	
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## Product name: 1-Boc-3-piperidone

See Section 13 for disposal information.

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7 Handling and storage			
Handling			
Precautions for safe handling Keep container tightly sealed.			
Store in cool, dry place in tightly closed containers.			
	explosions and fires: No information known.		
Conditions for safe storage, including Storage	i any incompatibilities		
Requirements to be met by storeroon	ns and receptacles: No special requirements.		
Further information about storage col	mon storage facility: Store away from oxidizing agents. nditions:		
Keep container tightly sealed. Store in cool, dry conditions in well seale	ad containers		
Specific end use(s) No further relevant	information available.		
8 Exposure controls/personal prote	action		
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	une monitoring at the workplace. Not required.		
Exposure controls			
Personal protective equipment General protective and hygienic meas	sures		
The usual precautionary measures for h	andling chemicals should be followed.		
The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	thing immediately.		
Wash hands before breaks and at the en Maintain an ergonomically appropriate w	Ia of Work.		
Breathing equipment: Use suitable res	pirator when high concentrations are present.		
Protection of hands: Impervious gloves			
Check protective aloves prior to each us	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	minutes) Not determined		
<b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothi	na		
	·ˈġ·		
9 Physical and chemical properties			
Information on basic physical and che General Information	emical properties		
Appearance:			
Form: Color:	Low melting solid Cream		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range: Boiling point/Boiling range:	37-39 °C (99-102 °F) Not determined		
Sublimation temperature / start:	Not determined		
Flash point:	Not applicable		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined Not determined.		
Auto igniting: Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits:			
Lower: Upper:	Not determined Not determined		
Vapor pressure:	Not applicable.		
Density: Relative density	Not determined Not determined.		
Relative density Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water).	Insoluble Not determined		
Viscosity:			
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
10 Stability and reactivity			
Reactivity No information known. Chemical stability Stable under recommended storage conditions.			
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			
Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available.			
Incompatible materials: Oxidizing ager Hazardous decomposition products:	Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides			
	USA		

(Contd. of page 1)

## Product name: 1-Boc-3-piperidone

Page 3/4 Printing date 11/24/2015 Reviewed on 11/20/2000

Product name: 1-Boc-3-piperidone	
	(Contd. of page .
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 t Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects Specific target organ system toxicity - single exposure: No effects Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge to	cts known. known.
12 Ecological information	
<ul> <li>Toxicity</li> <li>Aquatic toxicity: No further relevant information available.</li> <li>Persistence and degradability No further relevant information available.</li> <li>Bioaccumulative potential No further relevant information available.</li> <li>Mobility in soil No further relevant information available.</li> <li>Additional ecological information:</li> <li>General notes:</li> <li>Do not allow material to be released to the environment without proper Avoid transfer into the environment.</li> <li>Results of PBT and vPVB assessment</li> <li>PBT: Not applicable.</li> <li>other adverse effects No further relevant information available.</li> </ul>	
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations to ensur- Uncleaned packagings: Recommendation: Disposal must be made according to official regula	
<b>14 Transport information</b> 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	
DOT, IMDG, IATA Environmental hazards:	None
Special precautions for user	Not applicable. Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the I	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	
Maime Ponulant (DOT).	No
to research and development only. This product must be used by or dir product must not be used for commercial purposes or in formulations for SARA Section 313 (specific toxic chemical listings) Substance is no 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.	Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted rectly under the supervision of a technically qualified individual as defined by TSCA. This or commercial purposes. ot listed.

## Product name: 1-Boc-3-piperidone

(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 com Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods 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 dose, 60 percent LD50: Lethal dose, 60 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA