



1 Identification	
Product identifier	
Product name: Methyl (+/-)-4-Boc-piperazine-2-carboxylate	
Stock number: H27886 CAS Number:	
129799-08-2 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:	
Call Carechem 24 at +44 (0) 1865 407333 During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-)789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation.	
Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
\wedge	
GHS07	
Signal word Warning Hazard statements H315 Causes skin irritation. H335 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	<i>j.</i>
WHMIS classification D2B - Toxic material causing other toxic effects	
\oplus	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTIVITY 1 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:	
CAS# Description: 129799-08-2 Methyl (+/-)-4-Boc-piperazine-2-carboxylate	
4 First-aid measures	
4 First-and 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 consult a doctor. After swallowing Seek medical treatment.	
	(Contd. on page 2)
	USA

Auto igniting:

Product name: Methyl (+/-)-4-Boc-piperazine-2-carboxylate

(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 material to be released to the environment without proper governmental permits. 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: Not required. 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. 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 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: Solid Odor: Not determined Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined Not determined Sublimation temperature / start: Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not applicable

Not determined. Not determined Not determined

Not determined

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Danger of explosion:	Product does not present an explosion hazard.	(Contd. of page 2)
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	mandad ataraga conditiona	
Chemical stability Stable under recom Thermal decomposition / conditions t	be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No	and angerous reactions known	
Conditions to avoid No further relevant Incompatible materials: Oxidizing ager	t information available. hts	
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for o	slassification: No data	
Skin irritation or corrosion: Causes skin Eye irritation or corrosion: Causes set	rious eve irritation.	
Sensitization: No sensitizing effects know	own.	
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	ın.	
Specific target organ system toxicity Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. 	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effec Additional toxicological information:	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
10 Feelewisel information		
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant inf	ormation available.	
Persistence and degradability No furth	her relevant information available.	
Bioaccumulative potential Nó further r Mobility in soil No further relevant infor	elevant information available. mation available	
Additional ecological information:		
General notes: Do not allow material to be released to t	he environment without proper governmental permits.	
Do not allow undiluted product or large of	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen	t	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva	ant information available.	
12 Diamagal considerations		
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be m		
14 Transport information		
Not a hazardous material for transportat. UN-Number	ion.	
DOT, IMDG, IATA UN proper shipping name	None	
DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
	Nono	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(O
		(Contd. on page 4)

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DOT	
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulatio GHS label elements The product is classifier Hazard pictograms	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405 Store locked up. P501 Dispose of contents/conta National regulations This product is not listed in the U.S. Environn to research and development only. This prod product must not be used for commercial pur SARA Section 313 (specific toxic chemica California Proposition 65 Prop 65 - Chemicals known to cause canc Prop 65 - Developmental toxicity, female Su Prop 65 - Developmental toxicity, female Su Prop 65 - Developmental toxicity, male Su Information about limitation of use: For us Other regulations, limitations and prohibit Substance of Very High Concern (SVHC) a The conditions of restrictions according to market and use must be observed. Substance is not listed.	otective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. "son to fresh air and keep comfortable for breathing. hiner in accordance with local/regional/national/international regulations. nental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric uct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. I listings) Substance is not listed. e is not listed. Substance is not listed. bstance is not listed. e only by technically qualified individuals.
Other information Employers should use this information only a information to ensure proper use and protect conformance with this Material Safety Data S Department issuing SDS: Global Marketing	s a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not in theet, or in combination with any other product or process, is the responsibility of the user.
Date of preparation / last revision 11/24/20 Abbreviations and acronyms: RID: Réglement international concérnant le transport des m ATA-DGR: Dangerous Goods Regulations by the "Internation CAO-TI: Technical Instructions by the "International Civil Av MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American - HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (CSD: Lethal concentration, 50 percent 1050: Lethal dose 50 percent	To Job 7 - archandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) onal Air Transport Association" (IATA) viation Organization" (ICAO) Chemical Society) m (Canada) vajenists (USA)
LDD. Lenina loss, 30 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H SSHA: Occupational Safety and Health Administration (USJ NTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ygienists (USA))