

Safety Data Sheet per OSHA HazCom 2012



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Product name: 4-(Boc-aminomethyl)piperidine

Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns.

Causes serious eve damage

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Odor: Odor threshold:

Change in condition

Melting point/Melting range:

pH-value:

Not determined Not determined.

Not applicable.

106-108 °C (223-226 °F)

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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. 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 Recautions for sale manuning 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 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 n **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:** Tightly sealed goggles Full face protection Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: White

1-(Boc-aminomethyl)piperidine D, duct

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Product name: 4-(Boc-aminomethy	/l)piperidine		
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	Aller data meter a d	(Contd. of page 2)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined		
Flammability (solid, gaseous)	Not determined.		
lanition temperature:	Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits:			
Lower: Upper:	Not determined Not determined		
Vapor pressure:	Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/water): Not determined.			
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.	nmandad ataraac conditions		
Thermal decomposition / conditions	nmended storage conditions. 5 to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions N	lo dangerous reactions known		
Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents			
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Carbon monoxide and carbon dioxide Nitrogen oxides			
Possibly Hydrogen cyanide (HCN)			
11 Texicological information			
11 Toxicological information			
Information on toxicological effects Acute toxicity: Swallowing will lead to	a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.		
LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage.			
Sensitization: No sensitizing effects known.			
Germ cell mutagenicity: No effects kr.	nown.		
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: No effects known. Aspiration hazard: No effects known.			
Subacute to chronic toxicity: No effects 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 information available. Persistence and degradability No further relevant information available.			
Bioaccumulative potential No further	r relevant information available.		
Mobility in soil No further relevant information available			
Additional ecological information: General notes:			
Do not allow material to be released to the environment without proper governmental permits.			
Do not allow undiluted product or large	e quantities to reach ground water, water course or sewage system.		
Avoid transfer into the environment.			
PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further relev	vant information available.		
13 Disposal considerations			
Waste treatment methods Becommandation Consult state, local or national regulations to onsure proper dispectal			
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:			
Recommendation: Disposal must be made according to official regulations.			
A Transport information	A Transport information		
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3259		
UN proper shipping name	0110200		
DOT	Amines, solid, corrosive, n.o.s. (4-(Boc-aminomethyl)piperidine) AMINES, SOLID, CORROSIVE, N.O.S. (4-(Boc-aminomethyl)piper		
IMDG, IATA	AMINES, SOLID, CORROSIVE, N.O.S. (4-(Boc-aminometryi)piper		
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Der OSĤA HazCom 2012 Reviewed on 02/04/2011		
Product name: 4-(Boc-aminomethyl)piperidine		
	(Contd. of page 3)	
Transport hazard class(es) DOT		
Class Label	8 Corrosive substances. 8	
Class Label	8 (C8) Corrosive substances 8	
ĪMDĞ, IATA	č	
Class	8 Corrosive substances.	
Label Packing group	8	
Packing group DOT, IMDG, IATA Environmental hazards:	III Not applicable.	
Environmental nazaros: Special precautions for user	Not applicable. Warning: Corrosive substances	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	<u> </u>	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN3259, Amines, solid, corrosive, n.o.s. (4-(Boc-aminomethyl)piperidine), 8, III	
product must not be used for commercial purposes or in formulations for comm SARA Section 313 (specific toxic chemical listings) Substance is not listed. 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. Information about limitation of use: For use only by technically qualified indiv Other regulations.	onal/national/international regulations. ubstances Control Act Chemical Substance Inventory. Use of this product is restricted der the supervision of a technically qualified individual as defined by TSCA. This nercial purposes. ividuals. ations (EC) No. 1907/2006. Substance is not listed. he Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
 16 Other information Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employee conformance with this Material Safety Data Sheet, or in combination with any o Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (IATA-DCR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADF: Accound liveration Adviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" ICAO-TI: Technical Instructions by the "International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization ICAO-TI: International Maintime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstrats Service (division of the American Chemical Society) HMIS: Hearadous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50	on gathered by them, and should make independent judgement of suitability of this es. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user. (Regulations Concerning the International Transport of Dangerous Goods by Rail) Int concerning the International Carriage of Dangerous Goods by Road) USA	