



Product name: N-Boc-L-pipecolinic a	acid	
		(Contd. of page 1)
Information for doctor Most important symptoms and effects Indication of any immediate medical a	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:	
6 Accidental release measures		
Personal precautions, protective equip Wear protective equipment. Keep unprot Ensure adequate ventilation Environmental precautions: Do not allo	stected persons away. low material to be released to the environment without proper governmental permits. I t and cleaning up: Ensure adequate ventilation. special measures required. andling al protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed of Ensure good ventilation at the workplace Information about protection against e Conditions for safe storage, including Storage Requirements to be met by storeroom	e. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions:	
Control parameters		
Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot Wash hands before breaks and at the en Avoid contact with the eyes and skin.	andling chemicals should be followed. and feed. thing immediately. nd of work.	
Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp Protection of hands: Impervious gloves Check protective gloves prior to each use The selection of suitable gloves not only Penetration time of glove material (in I	vorking environment. spirator when high concentrations are present. se for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work clothin	ng.	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance:	emical properties	
Appearance: Form: Color:	Solid White	
Color: Odor: Odor threshold:	White Not determined Not determined.	
pH-value:	Not determined. Not applicable.	
Sublimation temperature / start:	122-126 °C (252-259 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined	
		(Contd. on page 3)

Product name: N-Boc-L-pipecolinic acid

Product name: N-Boc-L-pipecolinic	acid	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
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	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide	t information available.	
11 Toxicological information		
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	kin irritation. rious eye irritation. iown. own. o on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further info. Mobility in soil No further relevant info. Additional ecological information: General notes: Do not allow material to be released to a Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	relevant information available. rmation available. the environment without proper governmental permits. nt	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be n		
14 Transport information Not a hazardous material for transportation	tion.	
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 DOT, IMDG, IATA	None	
	None Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
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DOT	
Marine Pollutant (DOT):	No
Regulatory information	
•	ons/legislation specific for the substance or mixture
GHS label elements The product is classified	d and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
GHS07	
Signal word Warning	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eve irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume P280 Wear protective gloves/pro	ofective clothing/eve protection/face protection.
P305+P351+P338 IF IN EYES: Rinše cautiou	isly 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.
P405 Store locked up.	
National regulations	iner in accordance with local/regional/national/international regulations.
This product is not listed in the U.S. Environn to research and development only. This product	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
product must not be used for commercial pur SARA Section 313 (specific toxic chemical	poses or in formulations for commercial purposes.
California Proposition 65	
Prop 65 - Chemicals known to cause cance Prop 65 - Developmental toxicity Substance	e is not listed.
Prop 65 - Developmental toxicity, female S Prop 65 - Developmental toxicity, male Sul	Substance is not listed.
Information about limitation of use: For use	e only by technically qualified individuals.
Other regulations, limitations and prohibit Substance of Very High Concern (SVHC) a	ive regulations iccording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 5 Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t
The conditions of restrictions according to market and use must be observed.	> Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t
Substance is not listed.	uiting Authorization for upo) Substance is not listed
Chemical safety assessment: A Chemical S	uiring Authorisation for use) Substance is not listed. Safety Assessment has not been carried out.
Other information	
Employers should use this information only a	s a supplement to other information gathered by them, and should make independent judgement of suitability of this
conformance with this Material Safety Data S	the health and safety of employees. This information is furnished without warranty, and any use of the product not i heet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing	Department
Date of preparation / last revision 11/24/20 Abbreviations and acronyms:	1157 - archandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
RID: Reglement international concernant le transport des mi IATA-DGR: Dangerous Goods Regulations by the "Internation ICAO: International Civil Aviation Organization	archandises dangereuses par chemin de ter (Regulations Concerning the International Transport of Dangerous Goods by Rail) onal Air Transport Association" (IATA)
IATA-DGR: Dangerous Goods Regulations by the "Internation IATA-DGR: Dangerous Goods Regulations by the "Internation ICAO-TI: Technical Instructions by the "International Civil Av IMDG: International Maritime Code for Dangerous Goods	iation Organization" (ICAO)
IDD: US Department of mansportation (IATA: International Air Transport Association CAS: Chemical Abstracts Service (Idivision of the American (HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Syster LSSD: Lethal concentration, 50 percent	Chemical Society)
WHMIS: Workplace Hazardous Materials Information Syster LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	n (Canada)
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H	vaienists (USA)
LCSO: Letrial concentration, so percent LDSO: Letrial close, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (USA NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
IARC: International Agency for Research on Cancer	