

Safety Data Sheet per OSHA HazCom 2012

| Reviewed on 04/07/201 |
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| 1 Identification |
| Product identifier |
| Product name: <u>(R)-(+)-1-Boc-3-aminopyrrolidine</u> |
| Stock number: H28188 CAS Number: 147081-49-0 |
| 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 |
| Ana 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. |
| 2 Hazard(s) identification |
| Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) |
| GHS05 Corrosion |
| Skin Corr. 1B H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 H318 Causes serious eye damage. |
| H227 Combustible liquid. 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 |
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| |
| GHS05 |
| Signal word Danger Hazard statements |
| H227 Combustible liquid. H314 Causes severe skin burns and eye damage. |
| Precautionary statements |
| P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF. IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. |
| P501 Dispose of contents/container in accordance with local/regional/national/international regulations. |
| WHMIS classification B3 - Combustible liquid |
| D2B - Toxic material causing other toxic effects E - Corrosive material |
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| |
| Classification system HMIS ratings (scale 0-4) |
| HMIS ratings (scale 0-4) (Hazardous Materials Identification System) |
| HEALTH 2 Health (acute effects) = 2 FIRE 2 Flammability = 2 |
| REACTIVITY 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: 147081-49-0 (R)-(+)-1-Boc-3-aminopyrrolidine |
| |
| 4 First-aid measures Description of first aid measures |
| General information Immediately remove any clothing soiled by the product. |
| 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. (Contd. on page |
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Product name: (R)-(+)-1-Boc-3-aminopyrrolidine

| After sequences of the | |
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| S Fire-fighting measures Entropy the substance on the substance on the entropy of the entropy | ontd. of page 1 |
| Presonal presentions, protective equipment and emergency proceedures Was problem opticities, protective equipment and allow material to be released to the environment without proper governmental permits. Methods and material for contraliance and clearning up: Depose of contraliance and clearning up: Depose of contraliance and clearning up: Prevention of secondary that the exocording to section 13. Ensure adequate vertilation. Prevention of secondary that See Section 7 for information on approval protection operation approval protection operation approval protection against explosions and fires: Keop ignition sources away. Thandling and storage Mending and storage including any incompatibilities Regression of secondary from operation approvement protection against explosions and fires: Keop ignition sources away. Conditions about storage including any incompatibilities Regression adoption about storage conditions: Regression of secondary for the workplace. Information about storage conditions: Regression adoption ad | |
| Handling Frequitions for safe handling Precautions for safe handling Handle under dry protective gas. Keep container tighty sealed Ensure good venillation at the workplace. Information about protection against explosions and fires: Keep ignition sources away. Information about protection against explosions and receptacles: Refigerate Information about protection against explosions and receptacles: Refigerate Refigerate Information about protection against explosions and receptacles: Refigerate Refigerate Information about protection Store away from air. Proceet from heat: Bottom heat: Fridect from heat: Store away from air. Problem from heat: Bottom heat: Fridect from heat: Bottom heat: Propenty operating chemical from theod logged of the hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Control parameters Control parameters < | |
| 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 and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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 frespirator 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 dives 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 Eve protection: Tightly sealed goggles Full face protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: | |
| Information on basic physical and chemical properties General Information Appearance: | |
| Form: Liquid | |
| (Contd | ntd. on page 3 |

Product name: (R)-(+)-1-Boc-3-aminopyrrolidine

| Product name: (R)-(+)-1-Boc-3-amin | opyrrolidine | |
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| | | (Contd. of page 2) |
| Odor: Odor threshold: | Not determined Not determined. | |
| pH-value: | Not determined. | |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: | Not determined 243-244 °C (469-471 °F) Not determined | |
| Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | 91 °C (196 °F) Not applicable. Not determined Not determined Not determined. | |
| Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: | | |
| dynamic: kinematic: | Not determined. Not determined. | |
| Other information | No further relevant information available. | |
| Reactivity No information known. Chemical stability Stable under recoming Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Air Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Possibly Hydrogen cyanide (HCN) | to be avoided: Decomposition will not occur if used and stored according to specifications. | |
| LD/LC50 values that are relevant for of Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects know Carcinogenicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects | evere skin burns. rious eye damage. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. /n. - repeated exposure: No effects known. - single exposure: No effects known. | |
| 12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPVB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant | her relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t | |
| 13 Disposal considerations Waste treatment methods | ar national regulations to ensure proper disposal | |

Recommendation Consult state, local or national regulations to ensure proper disposal. **Uncleaned packagings: Recommendation:** Disposal must be made according to official regulations.

14 Transport information Not a hazardous material for transportation.

(Contd. on page 4)

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Product name: (R)-(+)-1-Boc-3-aminopyrrolidine

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| UN-Number | (Contd. of p. |
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| DOT, IMDG, IATA | UN2735 None |
| UN proper shipping name DOT | None Amines, liquid, corrosive, n.o.s. ((R)-(+)-1-Boc-3-aminopyrrolidine) |
| MDG, IATA | None |
| Transport hazard class(es) DOT | |
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| Class | 8 Corrosive substances. |
| abel Nass | None 8 8 (C7) Corrosive substances |
| abel MDG, IATA | None 8 |
| | |
| Class | 8 Corrosive substances. |
| abel | None 8 |
| Packing group DOT, IMDG, IATA | |
| | None |
| Invironmental hazards: Special precautions for user | Not applicable. Warning: Corrosive substances |
| pecial precautions for user ransport in bulk according to Annex II of MARPOL73/78 and t | Warning: Corrosive substances he IBC Code Not applicable. |
| | Not dangerous according to the above specifications. |
| rransporvAdditional information. | 5 5 7 |
| | |
| Transport/Additional information: DOT Marine Pollutant (DOT): UN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation specif GHS label elements The product is classified and labeled in accord Hazard pictograms | No UN2735, Amines, liquid, corrosive, n.o.s. ((R)-(+)-1-Boc-3-aminopyrrolidine), 8, |
| DOT Marine Pollutant (DOT): UN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation specif GHS label elements The product is classified and labeled in accord Hazard pictograms GHS05 | No UN2735, Amines, liquid, corrosive, n.o.s. ((R)-(+)-1-Boc-3-aminopyrrolidine), 8, |
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Product name: (R)-(+)-1-Boc-3-aminopyrrolidine

- ICAO: International Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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 concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal concentration and register (USA) WFMIS: Workplace Hazardous Materials Information System (USA) WFMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent CSD: Very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IMRC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA