

Safety Data Sheet



1. Identification of Substance/ Identification of Company

Product: 1-Boc-4-(N-Boc-amino)piperidine-4-carboxylic acid
Catalog #: UBG030
Chemical Formula: $C_{16}H_{28}N_2O_6$
Synonyms: 1-Boc-4-(N-Boc-amino)piperidine-4-carboxylic acid

Supplier: AAPPTec, LLC
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Louisville, Kentucky USA
40228
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2. Hazards Identification

OSHA hazards: No known OSHA hazards

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed

3. Composition/ information on ingredients

Substance/preparation: Substance
Chemical Name: 1-Boc-4-(N-Boc-amino)piperidine-4-carboxylic acid
CAS #: 189321-65-1
EC #: Not available

4. First Aid Measures

First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.
Skin Contact: Wash off with soap and plenty of water.
Eye Contact: Flush eyes with water as a precaution.

5. Fire-fighting Measures

Flammability of Product

Flash Point: No data available

Ignition Temperature: No data available

Extinguishing Media (Small Fire): Use a carbon dioxide or dry chemical extinguisher.

Extinguishing Media (Large Fire): Use water spray, fog, or foam. Do not use water jet.

Hazardous thermal decomposition products: Oxides of carbon (CO, CO₂) and nitrogen (NO, NO₂, ...).

Special fire-fighting procedures: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters: Use an approved/certified respirator or equivalent.

Other Information: Prevent fire-fighting water from entering ground water or surface water.

6. Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Small Spill or Leak: Sweep up and place in a suitable container for disposal according to local regulations.

Large Spill or Leak: Sweep up and shovel into suitable containers for disposal according to local regulations. Do not allow product to enter drains.

7. Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid forming dust and aerosols. Provide appropriate exhaust ventilation in places where dust is formed. Normal measures for preventive fire protection.

Storage: Keep container tightly closed. Keep dry in a well ventilated place.

8. Exposure Controls/Personal Protection

Exposure Limits

Contains no substances with occupational exposure limit values.

Engineering Measures: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Respiratory: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and Body: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hands: Handle with gloves

Eyes: Safety glasses with side shields conforming to EN166.

Hygiene Measures: Wash hands after handling and before eating, smoking, using lavatory, and end of the day. Change contaminated clothing immediately.

9. Physical and Chemical Properties

Physical State: Crystalline

Color: White to off-white

Molecular Weight: 344.3

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Ignition Temperature: No data available

Explosive Properties

Risk of explosion by mechanical impact: No data available

Risk of explosion by static discharge: No data available

Water Solubility: No data available

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Materials to Avoid: Strong oxidizing reagents, Strong acids.

Hazardous Decomposition Products: Oxides of carbon (CO, CO₂) and nitrogen (NO, NO₂, ...).

11. Toxicological Information

Acute Toxicity: No data available

Chronic Toxicity: No data available

Irritation and Corrosion No data available

Sensitization: No data available

Carcinogenic Effects: No data available

Mutagenic Effects: No data available

Reproductive Toxicity: No data available

Teratogenic Effects: No data available

Signs and Symptoms of Exposure: Weakness, Convulsions.

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed

12. Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and PvBv assessment: No data available

Other adverse effects: No data available

13. Disposal Considerations

Methods of Disposal of Waste Residues and

Contaminated Packaging: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transportation

International Transport Regulations

DOT

Not hazardous goods

IMDG

Not hazardous goods

IATA

Not hazardous goods

15. Regulatory Information

U.S. Federal Regulations

OSHA Hazards: No known OSHA hazards

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards: No SARA hazards

State Regulations:

Massachusetts Right To Know Components: No components listed.

Pennsylvania Right To Know Components:

1-Boc-4-(N-Boc-amino)piperidine-4-carboxylic acid

CAS No: 189321-65-1

Revision Date:

New Jersey Right To Know Components:

1-Boc-4-(N-Boc-amino)piperidine-4-carboxylic acid

CAS No: 189321-65-1

Revision Date:

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

DSL Status: This product contains the following components that are not on the Canadian DSL nor NDSL lists.
1-Boc-4-(N-Boc-amino)piperidine-4-carboxylic acid
CAS No: 189321-65-1

16. Other Information

Hazardous Material Information System (U.S.A.)

Health	0
Fire Hazard	0
Reactivity	0

National Fire Protection Association (U.S.A.)



Notice to Reader

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