



Product: Fmoc-D-Ala-OH  
SDS No: F20100  
Revision: 1.0

## Safety Data Sheet

### Section 1 - Product and Company Information

Product Name: Fmoc-D-Ala-OH  
Product Code: F20100  
Company: CSBio(Shanghai) Ltd  
EMERGENCY CONTACTS: Dr. Simon Zhu 0086-21-50781655

### Section 2 - Hazards Identification

- 2.1 Classification of the substance or mixture  
Not a hazardous substance or mixture.
- 2.2 GHS Label elements, including precautionary statements  
Not a hazardous substance or mixture.
- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### Section 3 - Composition/Information on Ingredients

Substance Name Fmoc-D-Ala-OH  
CAS No. 79990-15-1  
Formula  $C_{18}H_{17}NO_4$

### Section 4 - First Aid Measures

- 4.1 Description of first aid measures  
If inhaled  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
In case of skin contact  
Wash off with soap and plenty of water.  
In case of eye contact  
Flush eyes with water as a precaution.  
If swallowed  
Never give anything by mouth to an unconscious person. Rinse mouth with water.
- 4.2 Most important symptoms and effects, both acute and delayed  
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed  
No data available

### Section 5 - Fire Fighting Measures

- 5.1 Extinguishing media  
Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture  
Carbon oxides, nitrogen oxides (NOx)

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- 5.3 Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information  
No data available

## Section 6 - Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Avoid dust formation. Avoid breathing vapours, mist or gas.  
For personal protection see section 8.
- 6.2 Environmental precautions  
No special environmental precautions required.
- 6.3 Methods and materials for containment and cleaning up  
Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections  
For disposal see section 13.

## Section 7 - Handling and Storage

- 7.1 Precautions for safe handling  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities  
Keep container tightly closed in a dry and well-ventilated place.  
Keep in a dry place.
- 7.3 Specific end use(s)  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## Section 8 - Exposure Controls / PPE

- 8.1 Control parameters  
Components with workplace control parameters  
Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls  
Appropriate engineering controls  
General industrial hygiene practice.  
Personal protective equipment  
Eye/face protection  
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Skin protection  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
Body Protection

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Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

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).

Control of environmental exposure

Do not let product enter drains.

## Section 9 - Physical/Chemical Properties

Appearance:	White powder
Molecular Weight:	311.33
pH:	N/A
BP/BP Range:	N/A
MP/MP Range:	N/A
Freezing Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Saturated Vapor Conc.	N/A
SG/Density:	N/A
Bulk Density:	N/A
Odor Threshold:	N/A
Volatile%:	N/A
VOC Content:	N/A
Water Content:	≤6.0%
Solvent Content:	N/A
Evaporation Rate:	N/A
Viscosity:	N/A
Surface Tension:	N/A
Partition Coefficient:	N/A
Decomposition Temp.:	N/A
Flash Point:	N/A
Explosion Limits:	N/A
Flammability:	N/A

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Autoignition Temp:	N/A
Refractive Index:	N/A
Optical Rotation:	+18°±2.5°(C=1, DMF)
Miscellaneous Data:	N/A
Solubility:	N/A

## Section 10 - Stability and Reactivity

- 10.1 Reactivity  
No data available
- 10.2 Chemical stability  
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions  
No data available
- 10.4 Conditions to avoid  
No data available
- 10.5 Incompatible materials  
Strong oxidizing agents
- 10.6 Hazardous decomposition products  
Other decomposition products - No data available  
In the event of fire: see section 5

## Section 11 - Toxicological Information

- 11.1 Information on toxicological effects
  - Acute toxicity  
No data available
  - Inhalation: No data available
  - Dermal: No data available  
No data available
  - Skin corrosion/irritation  
No data available
  - Serious eye damage/eye irritation  
No data available
  - Respiratory or skin sensitisation  
No data available
  - Germ cell mutagenicity  
No data available
  - Carcinogenicity  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

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carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

## Section 12 - Ecological Information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

No data available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

## Section 14 - Transport Information

DOT (US)

Not dangerous goods

IMDG

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Not dangerous goods

IATA

Not dangerous goods

## Section 15 - Regulatory Information

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

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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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.

## Section 16 - Other Information

HMIS Rating

Health hazard: 0

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CSBio (Shanghai) Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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