



Product: Fmoc-Thr(tBu)-Phe-OH

SDS No: 221109

Revision: 1.0

## Safety Data Sheet

### Section 1 - Product and Company Information

Product Name: Fmoc-Thr(tBu)-Phe-OH  
Product Code: 221109  
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 according to Regulation (EC) No 1272/2008.
- 2.2 Label elements  
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
- 2.3 Other hazards  
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Section 3 - Composition/Information on Ingredients

Substance Name: Fmoc-Thr(tBu)-Phe-OH  
CAS No. N/A  
Formula:  $C_{32}H_{36}N_2O_6$

### Section 4 - First Aid Measures

- 4.1 Description of first-aid measures  
If inhaled  
After inhalation: fresh air.  
In case of skin contact  
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
In case of eye contact  
After eye contact: rinse out with plenty of water. Remove contact lenses.  
If swallowed  
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
- 4.2 Most important symptoms and effects, both acute and delayed  
The most important known symptoms and effects are described in the labeling (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  
Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

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Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

## Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store at Cool dry place( $\leq 25^{\circ}\text{C}$ ).

7.3 Specific end use(s)

Apart from the uses mentioned in section 2 no other specific uses are stipulated

## Section 8 - Exposure Controls / PPE

8.1 Control parameters

Components with workplace control parameters

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).

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#### 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### Body Protection

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

No special environmental precautions required.

### Section 9 - Physical/Chemical Properties

|                       |              |
|-----------------------|--------------|
| Appearance:           | White powder |
| Molecular Weight:     | 544.7        |
| 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:        | N/A          |
| Solvent Content:      | N/A          |
| Evaporation Rate:     | N/A          |

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|                        |     |
|------------------------|-----|
| 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 |
| Autoignition Temp:     | N/A |
| Refractive Index:      | N/A |
| Optical Rotation:      | N/A |
| 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
  - Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
  - 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
  - Skin corrosion/irritation
    - No data available
  - Serious eye damage/eye irritation
    - No data available
  - Respiratory or skin sensitization
    - No data available

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Germ cell mutagenicity

No data available

Carcinogenicity

No data available

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

## 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 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

### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

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IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

### Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### Section 16 - Other Information

16.1 DISCLAIMER

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

16.2 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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