

## SAFETY DATA SHEET

### 1: Product and Company Identification

#### 1) Product identifiers

**Product Number :** A-0199

**Product Name :** Fmoc-4-tert-butyl-D-phenylalanine

#### 2) Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

#### 3) Details of the supplier of the safety data sheet

Amatek (Suzhou) chemical Ltd.

Building B 409-412 Zhangjiagang EDZ Zhangjiagang, SuZhou, CHINA

Phone : + 86 512 58584128 Fax : + 86 512 58584118

Emergency Information: See Manufacturer / Supplier

### 2: Hazards identification

#### 1) Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, oral(Category 4)	H302
Skin corrosion/irritation(Category 2)	H315
Serious eye damage/eye irritation(Category 2A )	H319
STOT- single exposure(Category 3)	H335

#### 2) GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Pictogram



Signal word

Warning

##### Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

##### Precautionary statement(s)

P261	Avoid breathing dust.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 3) According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



##### R-phrases(s)

R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.

R41	Risk of serious damage to eyes
<b>S-phrases(s)</b>	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/39	Wear suitable protective clothing and eye/face protection

### 3: Composition/information on ingredients

<i>Component:</i>	Fmoc-4-tert-butyl-D-phenylalanine
<i>CAS Number:</i>	252049-14-2
<i>Formula:</i>	C <sub>28</sub> H <sub>29</sub> NO <sub>4</sub>
<i>Molecular Weight:</i>	443.534
<i>Concentration:</i>	

### 4. First Aid Measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### 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. Consult a physician.

### 5. Fire-fighting Measures

#### 1) Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 2) Special hazards arising from the substance or mixture

Nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide, Hydrogen chloride

#### 3) Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

### 6. Accidental Release Measures

#### 1) Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

#### 2) Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 3) Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. Handling and Storage

### 1) Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.

### 2) Conditions for safe storage, including any incompatibilities

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

Store temperature: 2-8 °C

## 8. Exposure Controls/Personal Protection

### 1) Exposure limits

No data available

### 2) Appropriate engineering controls

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

### 3) Personal protective equipment

*Respiratory protection:* Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

*Hand protection:* Nitrile gloves.

*Eye protection:* Safety glasses.

*Skin and body protection:* Lab coat.

## 9. Physical and chemical properties

Appearance: Off-white solid

Odor: Not determined

Melting Point (°C) : Not available

Boiling Point (°C) : Not available

Flash Point (°C) : Not available

Danger of Explosion : Product is not Explosive

Inflammability : Product is not Inflammable

Self – Inflammability : Product is not self-Igniting

## 10. STABILITY AND REACTIVITY

Stable

### Materials to Avoid

Strong oxidizing agents, Acid Chlorides, Acids, Acid anhydrides.

### Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides, Hydrogen bromide gas, Hydrogen chloride gas,

### Hazardous Polymerization

Will not occur

## 11. TOXICOLOGICAL INFORMATION

*Acute toxicity:* Harmful if swallowed.

*Skin irritation/corrosion:* No data available.



<i>Eye damage/irritation:</i>	No data available.
<i>Respiratory or skin sensitization:</i>	No data available.
<i>Germ cell mutagenicity:</i>	No data available.
<i>Carcinogenicity:</i>	No classification data on carcinogenic properties of this material is available from EPA, IARC, NTP, OSHA or ACGIH.
<i>Reproductive toxicity:</i>	No effects known.
<i>Specific target organ system toxicity - repeated exposure:</i>	No effects known.
<i>Specific target organ system toxicity - single exposure:</i>	No data available.
<i>Aspiration hazard:</i>	No data available.
<i>Additional information:</i>	To the best of our knowledge, the chemical, physical and toxicological properties of this substance have not been thoroughly investigated.

## 12. Ecological information

Toxicity: Harmful to aquatic life with long lasting effects.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Result of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No further relevant information available.

## 13. DISPOSAL CONSIDERATION

Dispose of in a manner consistent with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

### RID/ADR

Not a Hazardous material for Road Transport

### IMDG

Not a Hazardous material for Sea Transport

### IATA

Not a Hazardous material for Air Transport

## 15. REGULATORY INFORMATION

Caution: Substance not yet fully tested.

S 26

In case of contact with Eyes, Rinse immediately with plenty of water and seek medical Advice.

S.36/37

Wear suitable protective Clothing and Gloves.

## 16. OTHER INFORMATION

SDS Creation Date: 01/08/2017

Revision Date:

These data are based on our present knowledge. However, they shall not constitute a Guarantee for any specific product features and shall not establish a legally valid Relationship.