1. **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 **Product identifiers**
- **Product name**: Fmoc-His(Trt)-OPfp
- **Product Number**: 47477
- **Brand**: Anonymous
- **CAS-No.**: 109434-24-4

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
- **Identified uses**: Laboratory chemicals, Manufacture of substances

2. **HAZARDS IDENTIFICATION**

2.1 **Classification of the substance or mixture**
- Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
- Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 **Label elements**
- **Caution**: substance not yet tested completely.

2.3 **Other hazards - none**

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 **Substances**
- **Synonyms**: Nα-Fmoc-N(im)-trityl-L-histidine pentafluorophenyl ester
- **Formula**: C46H32F5N3O4
- **Molecular Weight**: 785.76 g/mol

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**

4.3 **Indication of any immediate medical attention and special treatment needed**
- **no data available**

5. **FIREFIGHTING 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), Hydrogen fluoride

5.3 **Advice for firefighters**
- Wear self contained breathing apparatus for fire fighting if necessary.

5.4 **Further information**
- **no data available**

6. **ACCIDENTAL RELEASE MEASURES**
6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas.

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.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C

7.3 Specific end uses
no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
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).

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 EU Directive 89/686/EEC 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).

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance</td>
<td>Form: crystalline</td>
</tr>
<tr>
<td></td>
<td>Colour: white</td>
</tr>
<tr>
<td>b) Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>c) Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>d) pH</td>
<td>no data available</td>
</tr>
<tr>
<td>e) Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>f) Initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>g) Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>h) Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>i) Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>j) Upper/lower flammability or explosive limits</td>
<td>no data available</td>
</tr>
</tbody>
</table>
9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY
10.1 Reactivity
no data available

10.2 Chemical stability
no data available

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

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

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.

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

Potential health effects

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

Additional Information
RTECS: Not available

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
       no data available
   12.6 Other adverse effects
       no data available

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.

14. TRANSPORT INFORMATION
   14.1 UN number
       ADR/RID: -        IMDG: -        IATA: -
   14.2 UN proper shipping name
       ADR/RID: Not dangerous goods
       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
       no data available

15. REGULATORY INFORMATION
   This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
   15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
       no data available
   15.2 Chemical Safety Assessment
       no data available

16. OTHER INFORMATION
   Further information
   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 this document is based on the resent 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. guidechem 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.