

SAFETY DATA SHEET

Revision Date 08/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

: Fmoc-Pro-OH Product name : FP2450 Product Number

Brand Advanced ChemTech

CAS-No. 71989-31-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

: Advanced ChemTech Company

5609 Fern Valley Rd, Louisville, KY 40228 USA

: +1 833-317-5620 Telephone : +1 502-968-1000

: +1 800-424-9300 Chemtrec 1.4 Emergency telephone number

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a hazardous substance or mixture

GHS Label elements, including precautionary statements: Not a hazardous substance or mixture Hazards not otherwise classified (HNOC) or not covered by GHS – none 2.2

2.3

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula C₂₀H₁₉NO₄ Molecular Weight 337.38g/mole : 71989-31-6 CAS-No. No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

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.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the 4.2 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

5. FIREFIGHTING MEASURES

Extinguishing media 5.1

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx) 5.2
- Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary. 5.3
- Further information: No data available 5.4

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, protective equipment, and emergency procedure: 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.

7. HANDLING AND STORAGE

- Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive 7.1 fire protection. 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. Recommended storage temperature: 2 - 8 °C Keep in a dry place.
- Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated 7.3

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters 8.1

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: 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.



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: White to Off-White powder a) Appearance

b) Odor no data available c) Odor Threshold no data available **d)** pH no data available

e) Melting point/freezing point Melting point/range: 117 - 118 °C (243 - 244 °F)

f) Initial boiling point and boiling range no data available g) Flash point no data available h) Evaporation rate no data available i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits no data available no data available k) Vapor pressure no data available I) Vapor density no data available m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n- octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available s) Explosive properties no data available t) Oxidizing properties no data available

10. STABILITY AND REACTIVITY

9.2

Reactivity: No data available 10.1

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

Other safety information:

Incompatible materials: Strong oxidizing agents 10.5

10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: No data available Inhalation: No data available Dermal: 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:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

no data available

human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a 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

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 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity: No data available
Persistence and degradability: No data available 12.1 12.2

Bioaccumulative potential: No data available 12.3

Mobility in soil: No data available 12.4

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.5

12.6 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

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

DOT (US)

Not dangerous goods



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IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: SARA 313: 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.

16. OTHER INFORMATION

HMIS Rating Health hazard: 0 Chronic Health Hazard: Flammability: Physical Hazard NFPA Rating 0 0 Health hazard: Fire Hazard: 0 Reactivity Hazard: 0

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. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.