

SAFETY DATA SHEET

Revision Date 05/23/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

: Fmoc-N-Me-Trp(Boc)-OH Product name

Product Number · FW2161

Brand : Advanced ChemTech

CAS-No. 197632-75-0

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

Identified uses Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet 1.3

Company : Advanced ChemTech

5609 Fern Valley Rd, Louisville, KY 40228 USA

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

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

2. HAZARDS IDENTIFICATION

2.1

Classification of the substance or mixture: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin sensitisation (Category 1), H317 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements:



Signal word

Hazard statement(s)

H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261

P272 Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment. P273

P280 Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

P321 Specific treatment (see supplemental first aid instructions on this label). If skin irritation or rash occurs: Get medical advice/ attention.

P333 + P313 P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none 23

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula : C₃₂H₃₂N₂O₆ Molecular Weight 540.61g/mole CAS-No. 197632-75-0

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of 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. 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.

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

6. ACCIDENTAL RELEASE MEASURES



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- **Personal Precautions, protective equipment, and emergency procedure:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8. 6.1
- Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the 6.2 environment must be avoided.
- Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. 6.3 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: 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
- 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 Store under inert gas. Moisture sensitive.
- 7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters**
 - Components with workplace control parameters: Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday

Personal protective equipment

Eye/face protection Face shield and safety glasses 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: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance	Form: White to Off-White powder
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
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)	no data available
j) Upper/lower flammability or explosive limits	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
Other safety information:	no data available

10. STABILITY AND REACTIVITY

9.2

- Reactivity: No data available 10.1
- 10.2 Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions: No data available 10.3
- 10.4
- Conditions to avoid: No data available 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 11.1

Acute toxicity: LD50 Oral - rat - > 2,000 mg/kg

Inhalation: No data available

Dermal: LD50 Dermal - rat - > 2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization: - guinea pig May cause sensitisation by skin contact.

Germ cell mutagenicity: Result: Not mutagenic in Ames Test.

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.



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

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, Effects due to ingestion may include:, Gastrointestinal disturbance, Changes in the blood count, Liver injury may occur.

12. ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h

Toxicity to algae EbC50 - Desmodesmus subspicatus (green algae) - 7.9 mg/l - 72 h

Persistence and degradability: Biodegradability Result: 27 % - According to the results of tests of biodegradability this product is not 12.2 readily biodegradable. (OECD Test Guideline 301)

12.3 Bioaccumulative potential: No data available

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

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic 12.6 life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods 13.1

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

IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-α-Fmoc-N-in-tert-Boc-Ltryptophan)

Marine pollutant: Marine pollutant

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (N-α-Fmoc-N-in-tert-Boc-L-tryptophan) **Further information** EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing

inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids

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: Acute Health Hazard

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

Pennsylvania Right to Know Components

CAS-No. Fmoc-N-Me-Trp(Boc)-OH Revision Date

197632-75-0

New Jersey Right to Know Components

Fmoc-N-Me-Trp(Boc)-OH CAS-No. Revision Date

197632-75-0

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute Acute aquatic toxicity Aquatic Chronic Chronic aquatic toxicity

H317 May cause an allergic skin reaction.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Skin Sens. Skin sensitisation

HMIS Rating

Health hazard: 2 Chronic Health Hazard: Flammability: 0 Physical Hazard 0 NFPA Rating Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: O

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 regarding appropriate safety precautions. It



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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.