



Alan Scientific Inc

Material Safety Data Sheet

Product: Fmoc-Arg(Pbf)-OH
MSDS No: AS2484
Revision: 1.0

Section 1 - Product and Company Information

Product Name	Fmoc-Arg(Pbf)-OH
Product Code	AS2484
Company	Alan Scientific Inc. Address: 11749 Split Tree Cir., Potomac, MD 20854 U.S.
EMERGENCY CONTACTS	(888)-757-1116 (Dr. Jason Zhi)

Section 2 - Composition/Information on Ingredients

Substance Name	Fmoc-Arg(Pbf)-OH
CAS No.	154445-77-9
Formula	$C_{34}H_{40}N_4O_7S$
Molecular Weight	648.77 g/mol

Section 3 - Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

Not a hazardous substance or mixture.

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 4 - First Aid Measures

Description of first aid measures

If inhaled After inhalation: fresh air.

In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact Rinse out with plenty of water. Remove contact lenses if present and easy to do.

If swallowed Make victim drink water (two glasses at most). Consult a doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling and/or in Section 11.

Indication of any immediate medical attention and special treatment needed No data available.



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Section 5 - Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Use water, foam, carbon dioxide (CO₂), or dry powder.

Special hazards arising from the substance or mixture Combustible. Fire may cause evolution of nitrogen oxides and sulfur oxides. Hazardous combustion gases or vapours may form.

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

Further information Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Avoid inhalation of dusts. Evacuate the danger area and observe emergency procedures. For personal protection see Section 8.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up Take up dry. Dispose of properly. Clean the affected area. Avoid generation of dusts.

Reference to other sections For disposal see Section 13.

Section 7 - Handling and Storage

Precautions for safe handling Use appropriate laboratory hygiene practices. Avoid formation or inhalation of dust.

Specific end use(s) Peptide synthesis; chemical synthesis; research use only.

Storage: Cool dry place ($\leq 25^{\circ}\text{C}$). Keep tightly closed and dry.

Section 8 - Exposure Controls / PPE

Control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls General industrial hygiene practice. Provide adequate ventilation where dust may be generated.

Personal protective equipment

Eye/face protection Use safety glasses or other 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 to avoid skin contact with this product. Wash and dry hands after handling. Nitrile rubber gloves are suitable for routine laboratory handling; verify compatibility with the specific solvents and conditions used.

Body Protection

Choose body protection according to the type and amount of material handled and the specific workplace.

Respiratory protection

Respiratory protection is required when dusts are generated. Use a suitable particulate filter such as type P1 in accordance with applicable standards.

Control of environmental exposure

Do not let product enter drains.

Section 9 - Physical/Chemical Properties

Appearance	White to colorless solid / white powder
Molecular Weight	648.77 g/mol
Melting point/freezing point	No SDS value available
Water solubility	No data available
Oxidizing properties	None

Section 10 - Stability and Reactivity

Reactivity In finely divided form, combustible organic solids may present a dust explosion potential.

Chemical stability Stable under standard ambient and recommended storage conditions.

Possibility of hazardous reactions Violent reactions are possible with strong oxidizing agents.

Conditions to avoid No specific information available.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products In the event of fire, hazardous combustion gases may include nitrogen oxides and sulfur oxides.



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Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity Oral, inhalation, and 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 data available.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.

Section 12 - Ecological Information

Toxicity No data available.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Results of PBT and vPvB assessment



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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.

Other adverse effects No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product Waste material must be disposed of in accordance with applicable federal, state, local, and institutional regulations. Do not mix with incompatible waste.

Contaminated packaging Dispose of as unused product unless otherwise permitted by local regulation.

Section 14 - Transport Information

UN number ADR/RID: - IMDG: - IATA: -

UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es) ADR/RID: - IMDG: - IATA: -

Packaging group ADR/RID: - IMDG: - IATA: -

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

Special precautions for users No data available. Not classified as dangerous in the meaning of transport regulations.

Section 15 - Regulatory Information

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

This safety data sheet references Regulation (EC) No. 1907/2006 for source safety information.

Chemical safety assessment For this product a chemical safety assessment was not carried out.

Section 16 - Other Information

DISCLAIMER

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

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 regarding appropriate safety precautions. It does not represent any guarantee of product properties. Alan Scientific Inc. shall not be held liable for damage resulting from handling or contact with the above product.