

SAFETY DATA SHEET

Revision Date 08/04/2023

		FIGATION			
1. PRO 1.1	DUCT AND COMPANY IDENTI Product identifiers	FICATION			
	Product name	: Fmoc-D-Asp(OBut)-OH			
	Product Number	: FD3192			
	Brand	Advanced ChemTech			
	CAS-No.	: 112883-39-3			
.2	Relevant identified uses o	f the substance or mixture and uses advised against			
	Identified uses : Laboratory chemicals, Manufacture of substances				
.3	Details of the supplier of t	he safety data sheet			
	Company	: Advanced ChemTech			
		5609 Fern Valley Rd, Louisville, KY 40228 USA			
	Telephone	: +1 833-317-5620			
	Fax	: +1 502-968-1000			
.4	Emergency telephone nur	nber : +1 800-424-9300 Chemtrec			
HAZ	ARDS IDENTIFICATION				
.1	Classification of the subs	tance or mixture:			
	GHS Classification in acc	ordance with 29 CFR 1910 (OSHA HCS)			
	Acute aquatic toxicity (Category 1), H400				
	Chronic aquatic toxicity (Ca				
	For the full text of the H-Sta	tements mentioned in this Section, see Section 16.			
2.2	GHS Label elements, inclu	uding precautionary statements:			
	Pictogram				
		~			
		¥.			
		\sim			
	Signal Word	Warning			
	Hazard statement(s)	waning			
	H410	Very toxic to aquatic life with long lasting effects.			
	Precautionary statement(
	P273	Avoid release to the environment.			
	P391	Collect spillage.			
	P501	Dispose of contents/ container to an approved waste disposal plant.			
2.3		ssified (HNOC) or not covered by GHS – none			
-					
3. COM	POSITION/INFORMATION ON	INGREDIENTS			
3.1	Substances				
	Synonyms	:Fmoc-D-aspartic acid 4-tert-butyl ester			
	Formula	: C ₂₃ H ₂₅ NO ₆			
	Molecular Weight	: 411.45g/mole			
	CAS-No.	: 112883-39-3			
		disclosed according to the applicable regulations.			
	For the full text of the H-Sta	tements mentioned in this Section, see Section 16.			
i. fiks 1.1	T AID MEASURES	2011/26			
F. 1	Description of first aid measures General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.				
		ove person into fresh air. If not breathing, give artificial respiration. Consult a physician			
		ash off with soap and plenty of water. Consult a physician			
		ish eyes with water as a precaution.			
	•	nything by mouth to an unconscious person. Rinse mouth with water. Consult a physician			
4.2		s and effects, both acute and delayed: The most important known symptoms and effects are described in the			
	labeling (see section 2.2) ar				
4.3	. ,	te medical attention and special treatment needed: No data available			
-					
5. FIRE	FIGHTING MEASURES				
5.1	Extinguishing media				
	Suitable extinguishing me	dia: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
5.2	Special hazards arising fr	om the substance or mixture: Carbon oxides, nitrogen oxides (NOx)			
5.3	Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.				
5.4	Further information: No da	ata available			
100	DENTAL RELEASE MEASUR	E9			
5.1	Personal Precautions, protective equipment, and emergency procedure: Avoid dust formation. Avoid breathing vapours, mist or gas Ensure adequate ventilation. For personal protection see section 8				
6.2		Ensure adequate ventilation. For personal protection see section a Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the			
	environment must be avoid				
5.3		r containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shove			
	Keep in suitable, closed cor				
5.4		is: For disposal see section 13.			
. HAN	DLING AND STORAGE				
'.1		ling: Provide appropriate exhaust ventilation at places where dust is formed. For precautions, see section 2.2.			
7.2	Conditions for safe stora	ge, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Protect			



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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

8.1 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 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.

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 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 9.1

Information on basic physical and chemical pro	perties
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	Melting point/range: 146 - 151 °C (295 - 304 °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)	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 	log Pow: 4.167
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

Chemical stability: Stable under recommended storage conditions. 10.2

10.3 Possibility of hazardous reactions: No data available

- 10.4 Conditions to avoid: No data available
- 10.5 Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products: Other decomposition products no data available. In the event of fire: see section 5 10.6

11. TOXICOLOGICAL INFORMATION

- Information on toxicological effects 11.1
 - 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:
 - 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.
 - 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 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



13.1

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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 12.1
- Persistence and degradability: No data available 12.2 Bioaccumulative potential: No data available
- 12.3 12.4 Mobility in soil: No data available
- 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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to
- aquatic life with long lasting effects.

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

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. (Fmoc-D-aspartic acid 4- tert-butyl ester) Marine pollutant: Marine pollutant ΙΑΤΑ

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Fmoc-D-aspartic acid 4-tert-butyl ester) Further information: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings 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: No SARA Hazards

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

Pennsylvania Right to Know Componer	its	
Fmoc-D-Asp(OBut)-OH	CAS-No.	Revision Date
·······	112883-39-3	
New Jersey Right to Know Components		
New Jersey Right to Know Components)	
Fmoc-D-Asp(OBut)-OH	CAS-No. 112883-39-3	Revision Date

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

Full text of H-Statements r	eferred to under sections 2 and 3.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
HMIS Rating	
Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	0
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. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.