according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 1 of 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Fmoc-L-Pmp(tBu)2-OH

Further trade names

N-alpha-(9-Fluorenylmethyloxycarbonyl)-4-(di-t-butylphosphono methyl)-L-phenylalanine CAS No: 166409-77-4

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

Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

nor botano or the calofy add onoot			
Iris Biotech GmbH			
Adalbert-Zoellner-Straße 1			
D-95615 Marktredwitz, Germany			
568			
D-95605 Marktredwitz, Germany			
+49 9231 97121 0	Telefax: +49 9231 97121 99		
info@iris-biotech.de			
Compliance Department	Telephone: +49 9231 97121 0		
sds@iris-biotech.de			
www.iris-biotech.de			
Only available during office hours.			
nergency telephone +49 (0)89 19240 (POISON CENTER Munich: 24 h)			
	Iris Biotech GmbH Adalbert-Zoellner-Straße 1 D-95615 Marktredwitz, Germany 568 D-95605 Marktredwitz, Germany +49 9231 97121 0 info@iris-biotech.de Compliance Department sds@iris-biotech.de www.iris-biotech.de Only available during office hours.		

number:

Further Information

This product does not meet the criteria for classification into a hazardous class according to Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures. A safety data sheet is provided which does not fully comply with Article 31 and Annex II of REACH.

Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.

Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none (GHS/CLP criteria are not met.) Warning - substance not yet tested completely.



according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 2 of 8

2.3. Other hazards

Product is not dust explosive in its original delivery form. The addition of particulate matter, however, results in a dust explosion risk.

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

N-alpha-(9-Fluorenylmethyloxycarbonyl)-4-(di-t-butylphosphono methyl)-L-phenylalanine Sum formula: C33H40NO7P Molecular weight: 593.65 g/mol

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).

according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 3 of 8

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Usual measures for fire prevention.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. In case of fire: Evacuate area.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.

Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Handle and store contents under inert gas. Protect from moisture. storage temperature: -20°C

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection



according to Regulation (EC) No 1907/2006

Iris Biotech GmbH

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 4 of 8

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physic Colou	cal state: r:	solid white/ whitish		
Odoui Odoui	: threshold:	No data available not determined		
Meltin Boiling boiling Sublin	ges in the physical state g point/freezing point: g point or initial boiling point and g range: nation point: hing point:		not determined not determined not determined not determined	
001101			not dotominou	



according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH				
Revision date: 19.02.2021	Product code: FAA5590	Page 5 of 8		
Flash point:	No data available			
Flammability Solid/liquid: Gas:	not determined not applicable			
Explosive properties Product is not dust explosive in its origina a dust explosion risk.	al delivery form. The addition of particulate matter, however, results in			
Lower explosion limits:	not determined			
Upper explosion limits:	not determined			
Auto-ignition temperature:	not determined			
Self-ignition temperature Solid: Gas:	not determined not applicable			
Decomposition temperature:	not determined			
pH-Value:	not determined			
Water solubility:	No data available			
Solubility in other solvents not determined				
Partition coefficient n-octanol/water:	not determined			
Vapour pressure:	not determined			
Density:	not determined			
Relative vapour density:	not determined			
9.2. Other information				
Information with regard to physical hazard Sustaining combustion: Oxidizing properties No data available	classes No data available			
Other safety characteristics				
Solvent content:	No data available			
Solid content:	not determined			
Evaporation rate:	not determined			
Eurther Information				

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Protect from moisture. Keep away from heat.

10.5. Incompatible materials

Oxidizing agents, strong.

according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 6 of 8

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).

Further information

In case of fire: See chapter 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. 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.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Additional information on tests

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Practical experience

No data available

Further information

RTECS: No data available

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 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



according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 7 of 8

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.7. Other adverse effects

Warning - substance not yet tested completely.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Handle contaminated packages in the same way as the substance itself.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Inland waterways transport (ADN) 14.2. UN proper shipping name: 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Marine transport (IMDG) 14.2. UN proper shipping name: 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: ENVIRONMENTALLY HAZARDOUS: No 14.5. Special precautions for user No information available. 14.7. Maritime transport in bulk according to IMO instruments No tappicable SECTION 15: Regulatory information Information according to 2012/18/EU Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessesment has not been carried out.					
Inland waterways transport (ADN) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Marine transport (IMDG) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk according to IMO instruments No applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Not subject to 2012/18/EU (SEVESO III) Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information 3 - highly hazardous to water 15.2. Chemical safety assessment To this substance a chemical safety assessment has not been carried out.	Land transport (ADR/RID)				
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Marine transport (IMDG) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment To right y bazardous to water	14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.			
Marine transport (IMDG) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No information available. No 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment has not been carried out.	Inland waterways transport (ADN)				
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No information available. No 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III) Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment has not been carried out.	14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.			
Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No No No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable 14.7. Maritime transport in bulk according to IMO instruments not applicable 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information 3 - highly hazardous to water 1.2. Chemical safety assessment Tor this substance a chemical safety assessment has not been carried out. For this substance a chemical safety assessment has not been carried out.	Marine transport (IMDG)				
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No information available. No 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.			
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable 14.7. Maritime transport in bulk according to IMO instruments SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	Air transport (ICAO-TI/IATA-DGR)				
ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No information available. No 14.7. Maritime transport in bulk according to IMO instruments not applicable No SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.			
14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	14.5. Environmental hazards				
No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	ENVIRONMENTALLY HAZARDOUS:	No			
14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	14.6. Special precautions for user				
not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	No information available.				
SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	14.7. Maritime transport in bulk according t	to IMO instruments			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	not applicable				
EU regulatory information Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	SECTION 15: Regulatory information				
Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water <u>15.2. Chemical safety assessment</u> For this substance a chemical safety assessment has not been carried out.	15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
(SEVESO III): Additional information Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water <u>15.2. Chemical safety assessment</u> For this substance a chemical safety assessment has not been carried out.	EU regulatory information				
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	•	Not subject to 2012/18/EU (SEVESO III)			
National regulatory information Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	Additional information				
Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)				
15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out.	National regulatory information				
For this substance a chemical safety assessment has not been carried out.	Water hazard class (D):	3 - highly hazardous to water			
·	15.2. Chemical safety assessment				
SECTION 16: Other information	For this substance a chemical safety assessment has not been carried out.				
	SECTION 16: Other information				



according to Regulation (EC) No 1907/2006

Fmoc-L-Pmp(tBu)2-OH

Revision date: 19.02.2021

Product code: FAA5590

Page 8 of 8

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOFC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.