

## Fmoc-TTD-DIG-OH

Revision date: 07.06.2022

Product code: FAA5730

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

## 1.1. Product identifier

Fmoc-TTD-DIG-OH

## Further trade names

[N1-(9-Fluorenylmethoxycarbonyl)-1,13-diamino-4,7,10-trioxatridecan-diglycolic acid Fmoc-NH-PEG(2)-DGA-OH Fmoc-NH-PEG(3)-DIG-OH Fmoc-1,13-diamino-4,7,10-trioxatridecan-diglycolic acid 1-(9H-fluoren-9-yl)-3,19-dioxo-2,8,11,14,21-pentaoxa-4,18-diazatricosan-23-oic acid Substance name: Dichloromethane, methylene chloride REACH Registration Number: 01-2119480404-41-XXXX CAS No: 75-09-2

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

200-838-9

## Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

### Uses advised against

EC No:

Do not use for private purposes (household). Restrictions on use: Pharmaceutical substance

### 1.3. Details of the supplier of the safety data sheet

Company name:	Iris Biotech GmbH	
Street:	Adalbert-Zoellner-Straße 1	
Place:	D-95615 Marktredwitz, Germany	
Post-office box:	568	
	D-95605 Marktredwitz, Germany	
Telephone:	+49 9231 97121 0	Telefax: +49 9231 97121 99
e-mail:	info@iris-biotech.de	
Contact person:	Compliance Department	Telephone: +49 9231 97121 0
e-mail:	sds@iris-biotech.de	
Internet:	www.iris-biotech.de	
Responsible Department:	Only available during office hours.	
1.4. Emergency telephone	+49 (0)89 19240 (POISON CENTE	R Munich: 24 h)

#### number:

**SECTION 2: Hazards identification** 

## 2.1. Classification of the substance or mixture

## **GB CLP Regulation**

Carc. 2; H351 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

Warning

## 2.2. Label elements

GB CLP Regulation

Signal word:

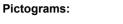


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## Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of Water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to an approved disposal site.

### Additional advice on labelling

Warning - substance not yet tested completely.

#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

## Chemical characterization

1-(9H-fluoren-9-yl)-3,19-dioxo-2,8,11,14,21-pentaoxa-4,18-diazatricosan-23-oic acid

Sum formula:	C29H38N2O9
Molecular weight:	558,62 g/mol

#### Hazardous components

CAS No	Chemical name						
	EC No Index No REACH No						
	Classification (GB CLP Regulation)						
75-09-2	Dichloromethane, methylene chloride						
	200-838-9 01-2119480404-41-XXXX						
	Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT SE 3, STOT RE 2; H351 H315 H319 H335 H336 H373						

Full text of H and EUH statements: see section 16.



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## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	o Chemical name					
	Specific Conc. Limits, M-factors and ATE						
75-09-2	200-838-9	Dichloromethane, methylene chloride	10-20 % %				
	inhalation: LC50 = 52000 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg						

## **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. Medical treatment necessary. 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

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

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. 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

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. 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. Carbon dioxide (CO2). 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).

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

## Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Usual measures for fire prevention.



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#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. 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.

#### For non-emergency personnel

Cover drains.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

### For emergency responders

Cover drains.

Stop and contain spill/release if it can be done safely.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Discharge into the environment must be avoided.

## 6.3. Methods and material for containment and cleaning up

#### For containment

Cover drains.

Stop and contain spill/release if it can be done safely.

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Universal binder/ Binder

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. 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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. 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

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. When using



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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. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. 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.

#### Further information on storage conditions

Protect from humidity and water.

## 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**

## 8.1. Control parameters

## Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
75-09-2	Dichloromethane	100	353		TWA (8 h)	WEL
		200	706		STEL (15 min)	WEL

#### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
75-09-2	Dichloromethane	carbon monoxide	30 ppm	end-tidal breath	Post shift

## **DNEL/DMEL** values

CAS No	Substance							
DNEL type		Exposure route	Effect	Value				
75-09-2	Dichloromethane, methylene chloride		-					
Worker DNEL,	long-term	inhalation	systemic	176 mg/m³				
Worker DNEL, long-term		dermal	systemic	12 mg/kg bw/day				
Consumer DN	EL, long-term	inhalation	systemic	44 mg/m³				
Consumer DNEL, long-term		dermal	systemic	5,82 mg/kg bw/day				
Consumer DNEL, long-term		oral	systemic	0,06 mg/kg bw/day				



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#### **PNEC** values

CAS No	Substance					
Environmen	Environmental compartment					
75-09-2	2 Dichloromethane, methylene chloride					
Freshwater 0,31 mg/l						
Freshwater (intermittent releases)		0,27 mg/l				
Marine water		0,031 mg/l				
Freshwater sediment		2,57 mg/kg				
Marine sediment		0,26 mg/kg				
Micro-organisms in sewage treatment plants (STP)		26 mg/l				
Soil		0,33 mg/kg				

## 8.2. Exposure controls





#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. 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

## Suitable eye protection: goggles.

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).



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#### **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 Physical state: liauid colourless / yellow Colour: Odour: No data available Odour threshold: not determined Changes in the physical state not determined Melting point/freezing point: Boiling point or initial boiling point and not determined boiling range: Sublimation point: not determined Softening point: not determined No data available Flash point: Flammability Solid/liquid: not applicable Gas: not applicable **Explosive properties** No data available Lower explosion limits: not determined Upper explosion limits: not determined not determined Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value: Viscosity / dynamic: not determined Viscosity / kinematic: not determined Flow time: not determined No data available Water solubility: Solubility in other solvents not determined Partition coefficient n-octanol/water: not determined Vapour pressure: not determined not determined Density: Bulk density: not applicable Relative vapour density: not determined 9.2. Other information Information with regard to physical hazard classes No data available Sustaining combustion: Oxidizing properties No data available Other safety characteristics Solvent content: No data available Solid content: not applicable



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not determined

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Evaporation rate:

## **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.

## 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 GB CLP Regulation

## Toxicocinetics, metabolism and distribution

No data available

### Acute toxicity

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

CAS No	Chemical name									
	Exposure route	Dose	93	Species	Source	Method				
75-09-2	Dichloromethane, methylene chloride									
	oral	LD50 > 200 mg/kg	00 F	Rat	Other company data (1988)	OECD Guideline 401				
	dermal	LD50 > 200 mg/kg	00 F	Rat	Other company data (1988)	OECD Guideline 402				
	'	LC50 5200 mg/l	)O F	Rat						

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Dichloromethane, methylene chloride)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: 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.



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#### STOT-single exposure

May cause respiratory irritation. (Dichloromethane, methylene chloride)

May cause drowsiness or dizziness. (Dichloromethane, methylene chloride)

## STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Dichloromethane, methylene chloride)

#### Aspiration hazard

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

## Specific effects in experiment on an animal

No data available

### **Practical experience**

No data available

#### 11.2. Information on other hazards

### Endocrine disrupting properties

No data available

## **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture! RTECS: No data available

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

## No data available

CAS No 75-09-2	Chemical name									
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method			
	Dichloromethane, methylene chloride									
	Acute fish toxicity	LC50	193 mg/l	96 h	Pimephales promelas	Bull Environ Contam Toxicol 20, 344-352	According to test methods described by t			
	Acute crustacea toxicity	EC50	27 mg/l	48 h	Daphnia magna	Study report (1979)	According EPA publication			
	Fish toxicity	NOEC	357 mg/l	8 d	Pimephales promelas	Publication (1987)	other: ASTM E729-80			

## 12.2. Persistence and degradability

No data available

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
75-09-2	Dichloromethane, methylene chloride				
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	< 26 %			
	Not readily biodegradable (according to OECD criteria)				

## 12.3. Bioaccumulative potential

No data available

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-09-2	Dichloromethane, methylene chloride	1,25



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## BCF

CAS No	Chemical name	BCF	Species	Source
75-09-2	Dichloromethane, methylene chloride	39	Cyprinus carpio	Study report (1986)

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

## 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

Warning - substance not yet tested completely.

## Further information

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

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Disposal recommendations

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

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

Land transport (ADR/RID) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.			
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.			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
<b>14.6. Special precautions for user</b> 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



Biotech	according to UK REACH Regulation	
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Restrictions on use (REACH, annex XVII): Entry 3, Entry 59		
2010/75/EU (VOC):	20 %	
2004/42/EC (VOC):	20 %	
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
Additional information		
Safety Data Sheet according to Regulat	ion (EC) No. 1907/2006 (REACH)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	
Water hazard class (D):	3 - highly hazardous to water	
15.2. Chemical safety assessment		
For this substance a chemical safety as	sessment has not been carried out.	
SECTION 16: Other information		
SECTION 16. Other information		
<ul> <li>(European Agreement concerning the Ir IMDG: International Maritime Code for II IATA: International Air Transport Associ GHS: Globally Harmonized System of C EINECS: European Inventory of Existing ELINCS: European List of Notified Cher CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%</li> <li>CLP: Classification, labelling and Packa REACH: Registration, Evaluation and A GHS: Globally Harmonised System of C UN: United Nations</li> <li>CAS: Chemical Abstracts Service DNEL: Derived No Effect Level</li> <li>DMEL: Derived No Effect Level</li> <li>PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate</li> <li>LL50: Lethal loading, 50%</li> <li>EL50: Effect loading, 50%</li> <li>EC50: Effective Concentration 50%, gr NOEC: No Observed Effect Concentration BCF: Bio-concentration factor</li> <li>PBT: persistent, bioaccumulative, toxic</li> <li>vPvB: very persistent, very bioaccumula RID: Regulations concerning the internat ADN: European Agreement concerning</li> </ul>	ation Classification and Labelling of Chemicals g Commercial Chemical Substances inical Substances liging uthorization of Chemicals Classification, Labelling and Packaging of Chemicals Classification, Labelling and Packaging of Chemicals on owth rate on ative ational carriage of dangerous goods by rail the International Carriage of Dangerous Goods by Inland Waterways ternational des marchandises dangereuses par voies de navigation	



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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

VOC: Volatile Organic Compounds

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

## Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
11000	Manual and a descent of a set of the set of

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

## **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.