

# cyclo-[RGDfK(TPP)]

Revision date: 14.03.2019

Product code: LS-3920

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

## 1.1. Product identifier

cyclo-[RGDfK(TPP)]

### Further trade names

cyclo[arginyl-glycyl-aspartyl-D-phenylalanyl-epsilon-(triphenylphosphonium)-lysyl] CAS No: 1926210-57-2

### 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

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 CENTER	R Munich: 24 h)

## 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**

# 2.2. 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

Warning - substance not yet tested completely.

### 2.3. Other hazards

No information available.

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



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## 3.1. Substances

### **Chemical characterization**

cyclo[arginyl-glycyl-aspartyl-D-phenylalanyl-epsilon-(triphenylphosphonium)-lysyl] Sum formula: C50H63N9O8P+Br-Molecular weight: 949.06\*79.90 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).

#### After inhalation

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

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

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with eyes

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.

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

# 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

Usual measures for fire prevention.

# SECTION 6: Accidental release measures



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## 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, 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

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

#### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. 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**

### 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.



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## Individual protection measures, such as personal protective equipment

# Eye/face protection

Suitable eye protection: goggles.

# Hand protection

Wear suitable gloves.

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.

# Skin protection

Wear suitable protective clothing.

### **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### **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:	Powder.	
Colour:	white/ off-white	
Odour:	No data available	
Changes in the physical state		
Melting point/freezing point:	not determined	Í
Boiling point or initial boiling point and	not determined	I
boiling range:	not determined	
Sublimation point: Softening point:	not determined	
		-
Flash point:	No data available	;
Flammability		
Solid/liquid:	not determined	•
Gas:	not applicable	;
Explosive properties No data available		
Lower explosion limits:	not determined	Í
Upper explosion limits:	not determined	Í
Auto-ignition temperature:	not determined	I
Self-ignition temperature		
Solid:	not determined	-
Gas:	not applicable	
Decomposition temperature:	not determined	ł
pH-Value:	not determined	Í
Water solubility:	No data available	;
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	not determined	l
Vapour pressure:	not determined	1



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Density:	not determined	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical hazard classe Sustaining combustion: Oxidizing properties No data available	No data available	
Other safety characteristics		
Solvent content:	No data available	
Solid content:	not determined	
Evaporation rate:	not determined	
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 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

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

### Sensitising effects

May cause an allergic skin reaction.

# 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.



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## 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

### **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.

# **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

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**

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**

Dispose of waste according to applicable legislation. 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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:	No dangerous good in sense of these transport regulations.



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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:	Νο			
<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				
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)			
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 assessment has not been carried out.				
SECTION 16: Other information				
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%

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

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

# **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.