

according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 1 of 9

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

# 1.1. Product identifier

OPSS-PEG(4)-SNAP

# Further trade names

N-(4-(((2-amino-9H-purin-6-yl)oxy)methyl)benzyl)-3-(2-(3-(pyridin-2-yldisulfaneyl)propanamido)ethoxy)propanamide N-[[4-[[(2-Amino-9H-purin-6-yl)oxy]methyl]phenyl]methyl]-1-oxo-1-[2-(2-pyridinyldithio)ethyl] -5,8,11,14-tetraoxa-2-azaheptadecanamide OPSS-PEG(4)-Benzylguanine OPSS-PEG(4)-BG OPSS-PEG-SNAP SSPy-PEG-SNAP CAS No: 2278175-10-1

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). 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.	
4. Emergency telephone	+49 (0)89 19240 (POISON CENTER Munich: 24 h)	

#### 1.4. Emerg 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



### according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 2 of 9

# **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.

#### 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.

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

#### 3.1. Substances

#### Chemical characterization

N-[[4-[[(2-Amino-9H-purin-6-yl)oxy]methyl]phenyl]methyl]-1-oxo-1-[2-(2-pyridinyldithio)ethyl] -5,8,11,14-tetraoxa-2-azaheptadecanamide

Sum formula:	C32H42N8O7S2
Molecular weight:	714,86 g/mol

#### Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

### **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.



according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 3 of 9

### **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). Sulfur oxides.

### 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.

For non-emergency personnel

# Take up carefully when dry.

# For emergency responders

Take up mechanically, placing in appropriate containers for disposal. Take up dust-free and set down dust-free.

#### 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

## For containment

Avoid dust formation.

#### For cleaning up

Take up mechanically.

#### 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



according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 4 of 9

# Advice on safe handling

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eves 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.

#### Further information on handling

Protect from humidity and water. Product is hygroscopic.

#### 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  $^\circ\text{C}$ 

## Hints on joint storage

No special measures are necessary.

# Further information on storage conditions

Protect from humidity and water. Product is hygroscopic.

## 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.

### 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.



according to Regulation (EC) No 1907/2006

# OPSS-PEG(4)-SNAP

Revision date: 17.05.2023

Product code: RL-4000

Page 5 of 9

## **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).

# Thermal hazards

No data available

#### **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

9.1. Information on basic physical and chemical properties				
Foam. sticky				
white/ whitish				
No data available				
not determined				
	not determined			
	not determined			
	not determined			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	not applicable			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
	No data available			
zard classes				
	No data available			
	No data available			
	not applicable			
	Foam. sticky white/ whitish No data available not determined			

according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 6 of 9

Oxidizing properties No data available

# Other safety characteristics

Solvent content: Viscosity / dynamic: Flow time:

#### **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. Protect from humidity and water. Product is hygroscopic.

# 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). Sulfur oxides.

# **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.

No data available not applicable not applicable

according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 7 of 9

## 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

# 11.2. Information on other hazards

Endocrine disrupting properties 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. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

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

#### 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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

## 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**

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:	No dangerous good in sense of these transport regulations.



OPSS-PEG(4)-SNAP					
Revision date: 17.05.2023	Product code: RL-4000	Page 8 of 9			
Marino transport (IMDG)					
Marine transport (IMDG) 14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.				
Air transport (ICAO-TI/IATA-DGR)	5 5 1 5				
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				
not applicable					
SECTION 15: Regulatory information					
15.1. Safety, health and environmental reg	ulations/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)				
Additional information					
Safety Data Sheet according to Regu	lation (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 16: Other information					
Abbreviations and acronyms					
-	national des marchandises dangereuses par route				
, -	nal Carriage of Dangerous Goods by Road).				
IMDG: International Maritime Code fo	-				
IATA: International Air Transport Ass	f Classification and Labelling of Chemicals				
	ting Commercial Chemical Substances				
ELINCS: European List of Notified Cl	•				
CAS: Chemical Abstracts Service					
LC50: Lethal concentration, 50%					
LD50: Lethal dose, 50% CLP: Classification, labelling and Pac	kaging				
REACH: Registration, Evaluation and					
-	f 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 Concentr	ation				
ATE: Acute toxicity estimate					
LL50: Lethal loading, 50%					
EL50: Effect loading, 50%					
EC50: Effective Concentration 50%					
ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration					



according to Regulation (EC) No 1907/2006

# **OPSS-PEG(4)-SNAP**

Revision date: 17.05.2023

Product code: RL-4000

Page 9 of 9

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 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.