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# **Safety Data Sheet**

according to UK REACH Regulation

# Fludarabine precursor

Revision date: 27.04.2022 Product code: 2933 Page 1 of 5

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

### 1.1. Product identifier

Fludarabine precursor

### Further trade names

2-Nitro-6-N,N-dibenzoyl-9-(2',3',5'-tri-O-benzyl-ß-Darabinofuranosyl)-9H-purine

Synonymes:

Benzamide, N-benzoyl-N-[2-nitro-9-(2,3,5-tri-O-benzoyl-B-Darabinofuranosyl)-9H-purin-6-yl]-; (2R,3S,4R,5R)-2-(6-(Nbenzoylbenzo

tetrahydrofuran-3,4-diyl dibenzoate; [18F]Fludarabine precursor CAS No: 1169548-57-5

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

#### Use of the substance/mixture

Fludarabine precursor may be used as precursor for [18F]Fludarabine.

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

Company name: ABX advanced biochemical compounds

Biomedizinische Forschungsreagenzien GmbH

Street: Heinrich-Gläser-Straße 10-14

Place: 01454 Radeberg
Telephone: +49 3528 4041 60

e-mail: info@abx.de

Contact person:

Dr. Christoph Meyer

e-mail: meyer@abx.de Internet: http://www.abx.de

1.4. Emergency telephone +49 3528 4041 60

number:

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### **GB CLP Regulation**

Signal word: Warning

Pictograms:



#### **Hazard statements**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

## **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

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P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

#### 3.1. Substances

Sum formula: C45H32N6O11

Molecular weight: 832.77

### **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1169548-57-5	Fludarabin precursor			95 - < 100 %
	Acute Tox. 4; H302			

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

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

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1169548-57-5		Fludarabin precursor	95 - < 100 %
	oral: ATE = 500 mg/kg		

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. Medical treatment necessary.

### After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

# After ingestion

If swallowed, immediately drink: Water. Medical treatment necessary.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Foam. Extinguishing powder. Atomized water. Carbon dioxide (CO2).

# 5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

# 5.3. Advice for firefighters

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

# Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

# **SECTION 6: Accidental release measures**

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

#### General advice

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

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. Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly.

## **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 dust. When using do not eat, drink, smoke, sniff.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

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

# Requirements for storage rooms and vessels

Keep container dry. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

### Further information on storage conditions

storage temperature

2-8 °C

Protect against: Light Keep under argon.

### **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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Tightly sealed safety glasses.

# **Hand protection**

Single-use gloves. NBR (Nitrile rubber).

### Skin protection

Lab apron. Chemical resistant safety shoes.

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### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: solid
Colour: whitish
Odour: odourless

Test method

Changes in the physical state

Flammability ISO 10156

Water solubility: Yes.

Solubility in other solvents

Dimethylsulfoxide (DMSO) Chloroform Dichloromethane

# **SECTION 10: Stability and reactivity**

# **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in GB CLP Regulation

### **Acute toxicity**

CAS No	Chemical name							
	Exposure route	Dose	Species	Source	Method			
1169548-57- 5	Fludarabin precursor							
	l - · - · ·	ATE 500 mg/kg						

#### Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: irritant.

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

# **SECTION 12: Ecological information**

## 12.1. Toxicity

There are no data available on the mixture itself.

# 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

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

#### **Further information**

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

## **Disposal recommendations**

Dispose of waste according to applicable legislation.

## List of Wastes Code - residues/unused products

according to UK REACH Regulation

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160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; discarded organic chemicals consisting of or containing hazardous

substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals: discarded organic chemicals consisting of or containing hazardous

substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

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

# **SECTION 14: Transport information**

#### Other applicable information

No dangerous good in sense of these transport regulations.

### **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

## **SECTION 16: Other information**

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.