Telefax: +49 3528 4041 65

### **Safety Data Sheet**

according to UK REACH Regulation

### Tosyloxyethylflumazenil

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

#### 1.1. Product identifier

Tosyloxyethylflumazenil

#### Further trade names

Chemical Name:

CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-5-methyl-6-oxo-,

2-[[(4-methylphenyl)sulfonyl]oxy]ethyl ester

Synonymes:

TFMZ; 8-Fluoro-5-methyl-6-oxo-5,6-dihydro-4H-2,5,10b-triaza-benzo[e]azulene-3-carboxylic acid 2-

(toluene-4-sulfonyloxy)-ethyl ester; 2'-Tosyloxyflumazenil

CAS No: 676437-17-5

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

#### Use of the substance/mixture

Precursor for [18F]FFMZ (2'-[18F]Fluorethylflumazenil)

### 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 Telephone: +49 3528 4041 8732

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**

Repr. 2; H361f

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### **GB CLP Regulation**

Signal word: Warning

Pictograms:



#### **Hazard statements**

H361f Suspected of damaging fertility.

### **Precautionary statements**

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

protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

according to UK REACH Regulation

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

#### 3.1. Substances

Sum formula: C22H20FN3O6S

Molecular weight: 473.47

### **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
676437-17-5	Tosyloxyethylflumazenil			95 - < 100 %
	Repr. 2; H361f			

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

### **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. Consult an ophthalmologist.

#### After ingestion

If swallowed, immediately drink: Water. Seek medical advice immediately.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

### 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

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

#### 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**

# 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. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### according to UK REACH Regulation

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#### 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 container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

### Further information on storage conditions

storage temperature: -20 ± 5°C

### **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.

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

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

Physical state: solid
Colour: cream
Odour: odourless

# Changes in the physical state

Water solubility:

The study does not need to be conducted because the substance is known to be insoluble in water.

### Solubility in other solvents

dimethylsulphoxide (DMSO). Ethanol

### **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

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#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). fluorhydric acid.

### **SECTION 11: Toxicological information**

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

#### Toxicocinetics, metabolism and distribution

No information available.

#### **Acute toxicity**

No information available.

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

May impair fertility.

#### 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**

#### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
676437-17-5	Tosyloxyethylflumazenil	1,9

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

### **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

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.

according to UK REACH Regulation

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

#### Other applicable information

Not a hazardous material with respect to these transportation regulations.

## **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

### **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)

H361f Suspected of damaging fertility.