according to UK REACH Regulation

Precursor for [18F]FPyBrA and [18F]FPyME

Revision date: 23.05.2022

Product code: 4393

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

1.1. Product identifier

Precursor for [18F]FPyBrA and [18F]FPyME

Further trade names

2-Pyridinaminium, 3-[3-[[(1,1-dimethylethoxy)carbonyl]amino]propoxy]-N,N,N-trimethyl-,

1,1,1-trifluoromethanesulfonate (1:1); 2-Pyridinaminium, 3-[3-[[(1,1-dimethylethoxy)carbonyl]amino]propoxy]

-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1)

Synonyms:

(2-Bromo-N-[3-(2-[18F]fluoropyridin-3-yloxy)propylacetamide) resp. (1-[3-(2-[18F]Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione) FPyBrA Precursor; FPyME Precursor CAS No: 640749-64-0

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

Use of the substance/mixture

Precursor for cis-4-[18F]Fluoro-L-proline

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 | Telefax: +49 3528 4041 65 | |
| 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

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Precautionary statements

P280

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

2.3. Other hazards

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

(2-Bromo-N-[3-(2-[18F]fluoropyridin-3-yloxy)propylacetamide) resp. (1-[3-(2-[18F]Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione)

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|---|--|-------------|--|
| Sum formula: | C16H28N3O3 x CF3O3S | Ĵ. | |
| Molecular weight: | 459.48 | | |
| Hazardous components | | | |
| none (according to UK REACH Regulation) | | | |
| | | | |
| SECTION 4: First aid measures | | | |
| 4.1. Description of first aid means After inhalation | asures_ | | |

Provide fresh air.

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. Call a physician immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

5.3. Advice for firefighters

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

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe dust. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment. When using do not eat, drink, smoke, sniff.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. 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.

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Further information on storage conditions

Recommended storage temperature: of °C: -25 up to °C: -15 Protect against: Light, Store under (Gas); argon, Nitrogen,

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | solid |
|-------------------------------|---|
| Colour: | colourless |
| Changes in the physical state | |
| Melting point/freezing point: | 96 - 104 °C |
| Water solubility: | The study does not need to be conducted |
| | because the substance is known to be |
| | insoluble in water. |

Solubility in other solvents

Chloroform Dichloromethane: dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). sulfur oxides. Fluorines-carbon-hydrogens.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Toxicological data are not available.

Additional information on tests

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

Further information

Toxicological data are not available.

SECTION 12: Ecological information

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.

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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

Do not allow to enter into surface water or drains. 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.

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

National regulatory information Water hazard class (D):

3 - highly hazardous to water

SECTION 16: Other information