

# Safety Data Sheet

according to UK REACH Regulation

## 16alpha-Fluoroestradiol

Revision date: 12.05.2022

Product code: 1910

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

#### 1.1. Product identifier

16alpha-Fluoroestradiol

#### Further trade names

CA index name: Estra-1,3,5(10)-triene-3,17-diol, 16-fluoro-, (16alpha,17beta)

16alpha-Fluoro-13beta-methyl-1,3,5(10)-gonatriene-3,17beta-diol; 16alpha-Fluoro-17beta-estradiol; FES

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

##### Use of the substance/mixture

Reference standard for 16alpha-[18F]Fluoroestradiol

#### 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 number:

+49 3528 4041 60

### 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

P370	In case of fire:
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula:	C18H23FO2
Molecular weight:	290.37

#### Hazardous components

none (according to UK REACH Regulation)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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### General information

Avoid contact with skin, eyes and clothes.

### After inhalation

Inhalation of dust may cause irritation of the respiratory system. Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists: Get medical advice/attention.

### After ingestion

If swallowed, immediately drink: Water.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). ABC powder.

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide

### 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

Wear personal protection equipment. Provide adequate ventilation. Avoid dust formation.

### 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

Avoid contact with skin, eyes and clothes. Do not breathe dust. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Further information on handling

When using do not eat, drink, smoke, sniff.

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

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**Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed.

**Further information on storage conditions**

storage temperature:

at °C:  $-20 \pm 5$ 

Protect against: Light.

**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****Individual protection measures, such as personal protective equipment****Hand protection**

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	colourless
Odour:	odourless

**Changes in the physical state**

Melting point/freezing point: 180 – 210 °C

Flash point: Non-flammable.

**Flammability**

Solid/liquid: Non-flammable.

Auto-ignition temperature: Non-flammable.

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

**9.2. Other information****Information with regard to physical hazard classes**

Oxidizing properties

Not oxidising.

**Further Information****SECTION 10: Stability and reactivity****10.2. Chemical stability**

Thermal decomposition can lead to the escape of irritating gases and vapours.

**10.3. Possibility of hazardous reactions**Decomposition under formation of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Fluorinated hydrocarbons.**10.4. Conditions to avoid**

May cause decomposition by long-term light influence.

**10.5. Incompatible materials**

Oxidizing agents, strong.

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### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

No information available.

#### Acute toxicity

Toxicological data are not available.

#### Irritation and corrosivity

No information available.

#### Sensitising effects

No information available.

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

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2.

#### STOT-repeated exposure

Toxicological data are not available.

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

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

### 11.2. Information on other hazards

#### Other information

Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxicological data are not available.

### 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

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

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**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**