

Material Safety Data Sheet
according to ANSI Z400.1-2004

16alpha-Fluoroestradiol

Print date: 22.02.2012

Product code: 1910

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

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

Chemical characterization (substance)

Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical compounds Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläserstraße 10-14	
Place:	D-01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 61
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SECTION 2: Hazards identification

Route(s) of Entry

Signs and Symptoms of Exposure

Carcinogenicity (NTP):	No information available.
Carcinogenicity (IARC):	No information available.
Carcinogenicity (OSHA):	No information available.

SECTION 3: Composition/information on ingredients

Substances

Sum formula:	C18H23FO2
Molecular weight:	290.37

SECTION 4: First aid measures

Description of first aid measures

General information

Avoid contact with skin, eye and clothing.

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

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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

Extinguishing media

Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO₂). ABC powder.

Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide.

Advice for firefighters

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

Additional information

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Provide adequate ventilation. Avoid generation of dust.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eye and clothing. Do not breathe dust. In case of open handling equipment with built-in suction must be used.

Further information on handling

Do not eat, drink, smoke or sneeze at the workplace.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed.

Further information on storage conditions

storage temperature:
at °C: -20 ± 5
Protect against: Light.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not

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eat or drink.

Hand protection

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form: solid
Color: colourless
Odor: odourless

Test method

Changes in the physical state

Melting point: 180 – 210 °C

Flash point: Non-flammable.

Flammability

Solid: Non-flammable.

Ignition temperature: Non-flammable.

Oxidizing properties

Not oxidizing.

Water solubility: insoluble

SECTION 10: Stability and reactivity

Stability: Stable

Possibility of Hazardous Reactions: Will not occur

Conditions to avoid

Decomposition possible after prolonged exposure to light.

Incompatible materials

Oxidizing agents, strong.

Hazardous decomposition products

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

SECTION 11: Toxicological information

Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Toxicological data are not available.

Specific effects in experiment on an animal

No information available.

Irritation and corrosivity

No information available.

Sensitizing effects

No information available.

Severe effects after repeated or prolonged exposure

Toxicological data are not available.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

Empirical data on effects on humans

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

SECTION 12: Ecological information

Toxicity

Toxicological data are not available.

Further information

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

Contaminated packaging

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Other applicable information

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

U.S. Regulations

SECTION 16: Other information

Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	0
Physical Hazard:	0
Personal Protection:	C

NFPA Hazard Ratings

Health:	1
Flammability:	0
Reactivity:	1
Unique Hazard:	

