

Page 1/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.03.2023

Version number 1.00

Revision: 10.03.2023

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

- · Product identifier
- · Trade name: Estradiol benzoate, API
- · Article number: 2487
- · CAS Number:
- 50-50-0
- EC number:
- 200-043-7
- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008
- Carc. 2 H351 Suspected of causing cancer.

Repr. 1A H360 May damage fertility or the unborn child.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms





Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.03.2023

Version number 1.00

Revision: 10.03.2023

Page 2/8

Trade name: Estradiol benzoate, API

(Contd. of page	1)				
Signal word Danger					
· Hazard statements					
H351 Suspected of causing cancer.					
H360 May damage fertility or the unborn child.					
· Precautionary statements					
P201 Obtain special instructions before use.					
P202 Do not handle until all safety precautions have been read and understood.					
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.					
P308+P313 IF exposed or concerned: Get medical advice/attention.					
P405 Store locked up.					
P501 Dispose of contents/container in accordance with local/regional/national/international					
regulations.					
· Other hazards					
· Results of PBT and vPvB assessment					
· PBT: Not applicable.					
· vPvB: Not applicable.					
Determination of endocrine-disrupting properties Not applicable.					

3 Composition/information on ingredients

- Substances
- CAS No. Description
- CAS: 50-50-0 estradiol benzoate
- · Identification number(s)
- EC number: 200-043-7

4 First aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

• After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

• After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
 All regular extinguishing media can be used.
 Use fire extinguishing methods suitable to surrounding conditions.



Printing date 10.03.2023

Version number 1.00

Trade name: Estradiol benzoate, API

- Special hazards arising from the substance or mixture
 Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: Smoke gases.
 Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information
- Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
 Avoid formation of dust.
 Avoid contact with the substance.
 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up:

Take up dry. Clean up with water. Dispose contaminated material as waste according to item 13. • **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

 \cdot Precautions for safe handling No special precautions are necessary if used correctly.

- · Information about fire and explosion protection: No special measures required.
- \cdot Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- Information about storage in one common storage facility:

TRGS 514 - "Storage of highly toxic and toxic substances in packages and nonstationary vessels" to be observed.

- Further information about storage conditions: No further information
- Storage class: TRHS 510: 6.1 C Combustible acutely toxic or chronic substances
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Revision: 10.03.2023

(Contd. of page 2)



Printing date 10.03.2023

Material of gloves

be observed.

•

Version number 1.00

The selection of the suitable gloves does not only depend on the material, but also on further marks of

The exact break through time has to be found out by the manufacturer of the protective gloves and has to

Revision: 10.03.2023

Trade name: Estradiol benzoate, API

Hand protection Protective gloves

· Penetration time of glove material

· Respiratory protection: Dust protection mask.

Eye/face protection Tightly sealed goggles

quality and varies from manufacturer to manufacturer.

Body protection: Protective work clothing				
9 Physical and chemical properties				
Information on basic physical and chemical pro	nerties			
· General Information				
· Physical state	Solid			
· Colour:	White			
· Odour:	Odourless			
Odour threshold:	Not determined.			
Melting point/freezing point:	196–1,978 °C			
Boiling point or initial boiling point and boiling				
range	Undetermined.			
· Flammability	Product is not flammable.			
· Lower and upper explosion limit				
· Lower:	Not determined.			
· Upper:	Not determined.			
· Flash point:	Not applicable.			
 Decomposition temperature: 	Not determined.			
· pH	Not applicable.			
· Viscosity:				
· Kinematic viscosity	Not applicable.			
· Dynamic:	Not applicable.			
Solubility				
water:	Not determined.			
• Partition coefficient n-octanol/water (log value)	Not determined.			
Vapour pressure:	Not applicable.			
Density and/or relative density				
· Density:	Not determined.			
· Relative density	Not determined.			
· Vapour density · Particle characteristics	Not applicable. Not determined			
	Not determined			
· Other information				
· Appearance:				
Form:	Solid			
Important information on protection of health				
and environment, and on safety.				
• Auto-ignition temperature:	Not determined.			
· Explosive properties:	Product does not present an explosion hazard. (Contd. on			

Page 4/8

(Contd. on page 5)



Page 5/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.03.2023

Version number 1.00

Revision: 10.03.2023

Trade name: Estradiol benzoate, API

		(Contd. of page 4)
Change in condition		
 Evaporation rate 	Not applicable.	
Information with regard to physical hazard		
classes		
· Explosives	Void	
	Void	
[.] Flammable gases	Void	
J	Void	
· Aerosols	Void	
	Void	
· Oxidising gases	Void	
	Void	
[.] Gases under pressure	Void	
	Void	
· Flammable liquids	Void	
	Void	
· Flammable solids	Void	
	Void	
• Self-reactive substances and mixtures	Void	
	Void	
· Pyrophoric liquids	Void	
·	Void	
· Pyrophoric solids	Void	
. .	Void	
• Self-heating substances and mixtures	Void	
······································	Void	
· Substances and mixtures, which emit flamm		
gases in contact with water	Void	
5	Void	
· Oxidising liquids	Void	
	Void	
· Oxidising solids	Void	
5 1 1 1 1	Void	
· Organic peroxides	Void	
U	Void	
· Corrosive to metals	Void	
	Void	
· Desensitised explosives	Void	
·	Void	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.



Page 6/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.03.2023

Version number 1.00

Revision: 10.03.2023

(Contd. of page 5)

Trade name: Estradiol benzoate, API

· **Incompatible materials:** No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

Oral LD50 >4,000 mg/kg (mouse)

>4,000 mg/kg (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Suspected of causing cancer.
- · Reproductive toxicity May damage fertility or the unborn child.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- · Toxicity
- Aquatic toxicity:
- EC50 >100 mg/L (Algae)

>1,000 mg/L (Daphnia magna)

- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- ·vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 7)

IE



Printing date 10.03.2023

Version number 1.00

Revision: 10.03.2023

(Contd. of page 6)

Page 7/8

Trade name: Estradiol benzoate, API

·	Other	adverse	effects
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- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

14 Transport information

14	ransport information		
	UN number or ID number	Not subject to transport regulations.	
	ADR, IMDG, IATA	not regulated	
•	UN proper shipping name		
•	IMDG, IATA	not regulated	
•	Transport hazard class(es)		
	ADR, ADN, IMDG, IATA		
•	Class	not regulated	
•	Packing group		
•	ADR, IMDG, IATA	not regulated	
•	Environmental hazards:	Not applicable.	
•	Special precautions for user	Not applicable.	
•	• Maritime transport in bulk according to IMO		
	instruments	Not applicable.	
•	UN "Model Regulation":	not regulated	

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed

· REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

• Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 6.1 C Combustible acutely toxic or chronic substances

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)

IE -



Printing date 10.03.2023

Version number 1.00

Revision: 10.03.2023

(Contd. of page 7)

Page 8/8

Trade name: Estradiol benzoate, API

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended. Reasons for alterations This version replaces all old versions. Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Carc. 2: Carcinogenicity - Category 2 Repr. 1A: Reproductive toxicity - Category 1A IE -