

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-23

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

1.1 Product identifiers

Product name : Estrone
Product Number : E105515
Brand : aladdin
CAS-No. : 53-16-7

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd

Address : 36 Xinjinqiao Road, Shanghai

Telephone : 400-620-6333
Fax : no data available

1.4 Emergency telephone number

Emergency Phone : 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled H350 May cause cancer

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H361 Suspected of damaging fertility or the unborn child

H362 May cause harm to breast-fed children



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

H412	Harmful to aquatic life with long lasting effects		
Precautionary statement(s)			
P260	Do not breathe dust/fume/gas/mist/vapors/spray.		
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.		
P263	Avoid contact during pregnancy/while nursing.		
P264	Wash hands [and] thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P271	Use only outdoors or in a well-ventilated area.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P321	Specific treatment (see on this label).		
P330	Rinse mouth.		
P302+P352	IF ON SKIN: wash with plenty of water.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P405	Store locked up.		
P501	Dispose of contents/container to an approved waste disposal plant.		
P203	Obtain, read and follow all safety instructions before use.		
P301+P317	IF SWALLOWED: Get medical help.		
P318	if exposed or concerned, get medical advice.		
P317	Get emergency medical help.		

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 1,3,5(10)-Estratrien-3-ol-17-one; 3-Hydroxy-1,3,5(10)-estratrien-17-one;

Folliculin

Formula : C18H22O2

Molecular weight : 270.37

CAS No. : 53-16-7

EC-NO. : 200-164-5

Component	Classification	Concentration
Estrone		
	no data available	Moligand™, ≥98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate

 ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for

 disposal.

 disposal.



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.

Sigma - E9750 Page 3 of 7

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

br/>workday.

Personal protective equipment

Eye/face protection

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching

 's glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in

 '>accordance with applicable laws and good laboratory practices. Wash and dry hands.

 '>

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount
 of the dangerous substance at the specific workplace.
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Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100

Control of environmental exposure

no data available



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	258-260°C
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available

j) Upper/lower flammability or explosive

limits no data available k) Vapour pressure no data available no data available I) Vapour density m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available no data available r) Viscosity no data available s) Explosive properties N no data available t) Oxidizing properties N

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

Carcinogenicity

There is sufficient evidence for the carcinogenicity of estrone in experimental animals. In the absence of adequate data inhumans, it is resonable, for practical purposes, to regard estrone as if it presented a carcinogenic risk to humans. Studies in humans strongly suggest that the administration of estrogens is causally related to an increased incidence of endometrial carcinoma; there is no evidence that estrone is different from other estrogens in this respect. There is sufficient evidence for the carcinogenicity of b-estradiol in experimental animals. In the absence of adequate data inhumans, it is reasonable, for practical purposes, to regard b-estradiol as if it presented a carcinogenic risk to humans. Studies in humans strongly suggest that the administration of estrogens is causally related to an increased incidence ofendometrial carcinoma; there is no evidence that b-estradiol is different from other estrogens in this respect. The National Toxicology Program (Tenth Report on Carcinogens) has determined that steroidal estrogens are known to be humancarcinogens based on sufficient evidence of carcinogenicity in humans, which indicates a causal relationship between exposure to steroidal estrogens and human cancer. This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogenE9750 Page 5 of 7IARC: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC.ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by ACGIH.NTP: Known to be human carcinogen (Estrone)OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

no data available

Contaminated packaging

no data available

SECTION 14: Transport information

DOT (US)

UN number: no data available Packing group: no data available Class: no data available

Proper shipping name: no data available Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

available available

Environmental Hazards: no data available

IMDG

UN number: no data available Packing group: no data available EMS-No: no data available

Proper shipping name: no data available

IATA

UN number: no data available Packing group: no data available Class: no data available



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Proper shipping name: no data available

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

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