according to GB/T 16483 and GB/T 17519



# **Estriol Formulation (Veterinary)**

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
3.0	2024/09/28	1930387-00017	Date of first issue: 2017/09/07

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Estriol Formulation (Veterinary)				
Other means of identification	:	Incurin (A008094) INCURIN (57787)				
Manufacturer or supplier's de	etai	ils				
Company	:	MSD				
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331				
Telephone	:	+1-908-740-4000				
Emergency telephone number	:	86-571-87268110				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Veterinary product				

Recommended use	:	Veterinary produ
Restrictions on use	:	Not applicable

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Appearance Colour Odour	:	powder, tablet white odourless
		ertility. May damage the unborn child. May cause damage to ated exposure. Very toxic to aquatic life with long lasting ef-
GHS Classification		
Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1

according to GB/T 16483 and GB/T 17519



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	<b>S label elements</b> ard pictograms		*
Sign	al word	: Danger	•
Haza	ard statements	H373 May caus peated exposur	amage fertility. May damage the unborn child. e damage to organs through prolonged or re-
Prec	autionary statements	P202 Do not ha and understood P260 Do not bro P273 Avoid rele	eathe dust. ease to the environment. ective gloves/ protective clothing/ eye protec-
		<b>Response:</b> P308 + P313 IF attention. P391 Collect sp	exposed or concerned: Get medical advice/
		<b>Storage:</b> P405 Store lock	ed up.
		<b>Disposal:</b> P501 Dispose o disposal plant.	f contents/ container to an approved waste

### Physical and chemical hazards

Not classified based on available information.

#### **Health hazards**

May cause cancer. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

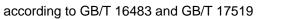
#### **Environmental hazards**

Very toxic to aquatic life with long lasting effects.

#### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**





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#### Substance / Mixture

: Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 10 -< 20
Oestriol	50-27-1	>= 1 -< 2.5

### 4. FIRST AID MEASURES

	General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
	If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
	In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
	If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
	Most important symptoms and effects, both acute and delayed	:	May cause cancer. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.
	Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
	Notes to physician	:	Treat symptomatically and supportively.
5. F	IREFIGHTING MEASURES		
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
	Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

according to GB/T 16483 and GB/T 17519



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			Exposure to com	bustion products may be a hazard to health.
11	davia a such vations and			busilon products may be a nazaru to nealth.
ucts	dous combustion prod-	:	Carbon oxides	
Specifi ods	ic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to d
Special protective equipment : In the event of fire, wear self-cont for firefighters Use personal protective equipme				e, wear self-contained breathing apparatus. tective equipment.
. ACCIDE	NTAL RELEASE MEAS	SUF	RES	
tive eq	nal precautions, protec- uipment and emer- procedures	:	Follow safe hand	otective equipment. Iling advice (see section 7) and personal pro It recommendations (see section 8).
Enviro	nmental precautions	:	Retain and dispo	eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
containment and cleaning up Avoid dispersal with compresse Dust deposits si es, as these ma leased into the Local or nationa posal of this ma employed in the mine which regu Sections 13 and				of dust in the air (i.e., clearing dust surfaces

Handling		
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

according to GB/T 16483 and GB/T 17519



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Local	I/Total ventilation	:	If sufficient ven ventilation.	tilation is unavailable, use with local exhaust
	ce on safe handling	:	Handle in accou practice, based sessment Keep container Minimize dust of Keep container Keep away from Take precaution Do not eat, drin	dust. vith eyes. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as-
	dance of contact	•	Oxidizing agent	IS
Stora	-			
	litions for safe storage	:	Store locked up Keep tightly clo Store in accord	sed. ance with the particular national regulations.
Mate	rials to avoid	:	Do not store wi Strong oxidizing	th the following product types: g agents
Pack	aging material	:	Unsuitable mate	erial: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters									
Components	CAS-No.	Value type	Control parame-	Basis					
		(Form of	ters / Permissible						
		exposure)	concentration						
Starch	9005-25-8	TWA	10 mg/m3	ACGIH					
Oestriol	50-27-1	TWA	0.5 µg/m3 (OEB	Internal					
	Further information: Skin								
	Wipe limit 5 µg/100 cm <sup>2</sup> Internal								

## Components with workplace control parameters

Engineering measures	<ul> <li>Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to pre- vent leakage of compounds into the workplace.</li> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>No open handling permitted.</li> </ul>
	Totally enclosed processes and materials transport systems

according to GB/T 16483 and GB/T 17519



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		Op no		e the use of appropriate containment tech- o prevent leakage of compounds into the	
Pers	onal protective equip	nent			
	piratory protection	su on	re assessment mended guidel	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- ines, use respiratory protection.	
	ilter type face protection	: Wo If t mi Wo po	<ul> <li>Particulates type</li> <li>Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>		
Skin	and body protection	<ul> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upor task being performed (e.g., sleevelets, apron, gauntle posable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove pot contaminated clothing.</li> </ul>		arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. egowning techniques to remove potentially	
Hand	d protection				
Μ	laterial	: Ch	emical-resistan	t gloves	
	emarks ene measures	: If e ey ing Wi Wi Wi Ch en ap ing	e flushing syste place. hen using do no ash contaminate e effective oper gineering contro propriate degov	mical is likely during typical use, provide ms and safety showers close to the work- et eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, vning and decontamination procedures, monitoring, medical surveillance and the	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

: powder, tablet	
: white	
: odourless	
: No data available	
: 6	
: No data available	
	<ul> <li>white</li> <li>odourless</li> <li>No data available</li> <li>6</li> </ul>

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	Initial bo range	oiling point and boiling	:	No data available	9
ļ	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
ļ	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.
I	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	9
,	Vapour	pressure	:	No data available	9
ļ	Relative	e vapour density	:	Not applicable	
ļ	Relative	e density	:	No data available	9
I	Density		:	0.965 g/cm <sup>3</sup>	
:	Solubilit Wate	ty(ies) er solubility	:	partly soluble	
	Partitior octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
ļ	Decom	position temperature	:	No data available	9
,	Viscosit Visc	ty osity, kinematic	:	Not applicable	
I	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	No data available	9
10. S	TABILI	ITY AND REACTIVITY	,		
I	Reactiv		:	Not classified as Stable under nor	a reactivity hazard. mal conditions.

according to GB/T 16483 and GB/T 17519



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Po tio	ssibility of hazardous reac- ns	:	dling or other me	ive dust-air mixture during processing, han- ans. rong oxidizing agents.		
Co	onditions to avoid	:	Heat, flames and			
Ha	compatible materials zardous decomposition oducts	:	Avoid dust formation. Oxidizing agents			
11. TO	XICOLOGICAL INFORMAT		1			
Ex	posure routes	:	Inhalation Skin contact Ingestion Eye contact			
	<b>cute toxicity</b> ot classified based on availa	ble i	information.			
<u>Cc</u>	omponents:					
	arch:			20		
	ute oral toxicity	:	LD50 (Rat): > 5,0			
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg		
Oe	estriol:					
Ac	ute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg			
	in corrosion/irritation ot classified based on availa	ble i	information.			
	rious eye damage/eye irri ot classified based on availa					
<u>Cc</u>	omponents:					
	arch:					
Sp Re	ecies esult	:	Rabbit No eye irritation			
Re	espiratory or skin sensitis	atio	n			
	in sensitisation ot classified based on availa	ble i	information.			
Re	espiratory sensitisation					

Not classified based on available information.

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### **Components:**

## Starch:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Species Result	:	negative

### Germ cell mutagenicity

Not classified based on available information.

### Components:

Starch:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Oestriol:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Oral Result: negative
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
Carcinogenicity		
May cause cancer.		
Components:		
Oestriol:		
Species Application Route Result Target Organs	: :	Mouse Oral positive Mammary gland
Species Application Route Result	:	Hamster Oral positive

Species Application Route Result Target Organs	: Mouse : Oral : positive : Mammary gland	
Species Application Route Result Tumor Type	: Hamster : Oral : positive : Kidney	
Carcinogenicity - Assess- ment	: Positive evidence from human epidemiological studies	

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### Reproductive toxicity

May damage fertility. May damage the unborn child.

### Components:

Oestriol:	
Effects on fertility :	Test Type: Fertility/early embryonic development Species: Rat, female Application Route: Oral Fertility: LOAEL: 84 µg/kg Result: Effects on fertility
	Test Type: Fertility/early embryonic development Species: Rat, female Application Route: Subcutaneous Fertility: LOAEL: 0.05 mg/kg body weight Result: Effects on fertility
	Test Type: Fertility/early embryonic development Species: Rat, female Application Route: Subcutaneous Fertility: LOAEL: 100 mg/kg body weight Result: Effects on fertility
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: No embryo-foetal toxicity, Malformations were ob- served.
	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 4.5 mg/kg body weight Result: Embryo-foetal toxicity
	Test Type: Embryo-foetal development Species: Hamster Application Route: Oral Developmental Toxicity: LOAEL: 30 mg/kg body weight Result: Embryo-foetal toxicity
Reproductive toxicity - As- : sessment	Positive evidence of adverse effects on sexual function and fertility from human epidemiological studies., Positive evidence of adverse effects on development from human epidemiological studies.

## STOT - single exposure

Not classified based on available information.

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#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Components:

#### **Oestriol:**

Target Organs	:	Reproductive organs, Blood, Kidney, Bladder
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

#### Repeated dose toxicity

### Components:

#### Starch:

Species NOAEL	-	Rat >= 2,000 mg/kg
Application Route		Skin contact
Exposure time	:	28 Days
Method	:	OECD Test Guideline 410

### **Oestriol:**

Species	: Dog
LÕAEL	: 0.2 mg/kg
Application Route	: Oral
Exposure time	: 13 - 26 Weeks
Species LOAEL Application Route Exposure time Target Organs	: female reproductive organs, Blood, Kidney, Bladder

Species LOAEL Application Route	: Dog
LÕAEL	: 8 mg/kg
Application Route	: Subcutaneous
Exposure time Target Organs	: 1 yr
Target Organs	: male reproductive organs, female reproductive organs

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### **Components:**

#### **Oestriol:**

Ingestion

: Symptoms: breast tenderness, Nausea, Diarrhoea, Gastrointestinal disturbance, Dizziness, Headache, Vomiting, hypertension, Oedema, effects on menstruation, gynecomastia, changes in vaginal secretions, visual disturbances, leg cramps, reduced libido

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

### Components:

Oestriol: Toxicity to fish (Chronic tox- : icity) M-Factor (Chronic aquatic : toxicity)	NOEC (Oryzias latipes (Japanese medaka)): 0.000075 mg/l Exposure time: 100 d 1,000
Persistence and degradability No data available	
<b>Bioaccumulative potential</b> No data available	
<b>Mobility in soil</b> No data available	
Other adverse effects No data available	

### **13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

## International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Oestriol)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
<b>IATA-DGR</b> UN/ID No. Proper shipping name	:	UN 3077 Environmentally hazardous substance, solid, n.o.s.

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_			

		(Oestriol)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Oestriol)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

0 = 00 : # :==00		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(Oestriol)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **15. REGULATORY INFORMATION**

### National regulatory information Law on the Prevention and Control of Occupational Diseases

### **Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals	: This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.
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Identification of Major Hazard Installations for Hazardous Chemicals (GB : Not listed 18218) Hazardous Chemicals for Priority Management under : Not listed SAWS									
Regulations on Labour Protection in Workplaces where Toxic Substances are Used         Catalogue of Highly Toxic Chemicals       : Not listed         Regulation of Environmental Management on the First Import of Chemicals and the Import									
and Export of Toxic Chemicals China Severely Restricted Toxic Chemicals for Import : Not listed and Export									
Regulation on the Administration of Precursor Chemicals Catalogue and Classification of Precursor Chemicals : Not listed									
Yang	tze River Protection	_aw							
This p	product does not conta	in any dangerous cher	nicals prohibited for inland river transport.						
	The components of this product are reported in the following inventories: AICS : not determined								
DSL		: not determined							
IECS	с	: not determined							
16. OTHER INFORMATION									
Revis	ion Date	: 2024/09/28							

Further information	
Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format		yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH / TWA	:	8-hour, time-weighted average		

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AIIC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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