according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
2.1	2024/04/06	10608701-00007	Date of first issue: 2022/02/08

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Estradiol Gel Formulation						
Manufacturer or supplier's de	Manufacturer or supplier's details							
Company	:	Organon & Co.						
Address	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302						
Telephone	:	+1-551-430-6000						
Emergency telephone number	:	+1-215-631-6999						
E-mail address	:	EHSSTEWARD@organon.com						
Recommended use of the chemical and restrictions on use								
Recommended use Restrictions on use	:	Pharmaceutical Not applicable						

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	gel opalescent aromatic			
Highly flammable liquid and vapour. Causes serious eye irritation. May cause cancer. May dam- age fertility. May damage the unborn child. Causes damage to organs through prolonged or re- peated exposure. Very toxic to aquatic life with long lasting effects.					
GHS Classification					
Flammable liquids	:	Category 2			
Serious eye damage/eye irri- tation	:	Category 2A			
Carcinogenicity	:	Category 1A			
Reproductive toxicity	:	Category 1A			
Specific target organ toxicity - repeated exposure	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 1			

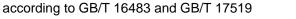
according to GB/T 16483 and GB/T 17519

Estradiol Gel Formulation



Version 2.1	Revision Date: 2024/04/06	SDS Number: 10608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
GHS	label elements		
Haza	rd pictograms		
Signa	al word	: Danger	• • •
Haza	rd statements	H319 Causes s H350 May caus H360FD May d H372 Causes o exposure.	ammable liquid and vapour. serious eye irritation. se cancer. lamage fertility. May damage the unborn child. damage to organs through prolonged or repeated c to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not ha and understood P210 Keep awa No smoking. P233 Keep cor P241 Use explo ment. P242 Use only P243 Take pre P260 Do not br P264 Wash ski P270 Do not ea P273 Avoid rela	ay from heat/ sparks/ open flames/ hot surfaces. ntainer tightly closed. osion-proof electrical/ ventilating/ lighting equip- non-sparking tools. cautionary measures against static discharge. reathe vapours. In thoroughly after handling. at, drink or smoke when using this product. ease to the environment. tective gloves/ protective clothing/ eye protec-
		ly all contamina P305 + P351 + for several min easy to do. Cor P308 + P313 If attention.	exposed or concerned: Get medical advice/
		Storage:	tore in a well-ventilated place. Keep cool

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.





Estradiol Gel Formulation

VersionRevision Date:SDS Number:Date of last issue: 2023/09/302.12024/04/0610608701-00007Date of first issue: 2022/02/08

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Highly flammable liquid and vapour.

Health hazards

Causes serious eye irritation. May cause cancer. May damage fertility. May damage the unborn child. Causes 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

Vapours may form explosive mixture with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

64-17-5	58.5
50-28-2	0.1

Voluntarily-disclosed substance

4. FIRST AID MEASURES

General advice	vic Wł	the case of accident or if you feel unwell, seek medical ad- e immediately. hen symptoms persist or in all cases of doubt seek medical vice.
If inhaled		nhaled, remove to fresh air. t medical attention.
In case of skin contact	of v Re Ge Wa	case of contact, immediately flush skin with soap and plenty water. move contaminated clothing and shoes. It medical attention. ash clothing before reuse. oroughly clean shoes before reuse.
In case of eye contact	: In o for If e	case of contact, immediately flush eyes with plenty of water at least 15 minutes. asy to do, remove contact lens, if worn. It medical attention.
If swallowed	Ge	wallowed, DO NOT induce vomiting. It medical attention. This mouth thoroughly with water.
Most important symptoms and effects, both acute and	: Ca	uses serious eye irritation. ly cause cancer.

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Versior 2.1	n Revision Date: 2024/04/06		8 Number: 08701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08		
Pr	delayed Protection of first-aiders Notes to physician		 May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. 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). Treat symptomatically and supportively. 			
	5. FIREFIGHTING MEASURES					
	uitable extinguishing media	A C	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
m Sp	nsuitable extinguishing edia becific hazards during fire- hting	 High volume water jet Do not use a solid water stream as it may scatter and s fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to be 		water stream as it may scatter and spread le over considerable distance. explosive mixtures with air.		
Ha uc	azardous combustion prod- ts	: (Carbon oxides			
Sr oc	becific extinguishing meth- ls	 Use extinguishing measures that are appropriate to cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it so. 		ne surrounding environment. o cool unopened containers.		
	pecial protective equipment r firefighters	: 1	Evacuate area. n the event of fire Jse personal prote	, wear self-contained breathing apparatus. ective equipment.		
6. ACC	IDENTAL RELEASE MEAS	SURE	S			
tiv	ersonal precautions, protec- e equipment and emer- ency procedures	 c- : Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Follow safe handling advice (see section 7) and persona tective equipment recommendations (see section 8). 		ective equipment. ng advice (see section 7) and personal pro-		
Er	Environmental precautions		Prevent spreading parriers). Retain and dispos	akage or spillage if safe to do so. over a wide area (e.g. by containment or oil e of contaminated wash water. hould be advised if significant spillages		

Methods and materials for : Non-sparking tools should be used.

Version

2.1

according to GB/T 16483 and GB/T 17519



Date of last issue: 2023/09/30

Date of first issue: 2022/02/08

Estradiol Gel Formulation

Revision Date:

2024/04/06

2.1	2024/04/00	100				
	containment and share's r					
	containment and cleaning up		 Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate containe Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. 			
7. F	IANDLING AND STORAGE					
	Handling					
	Technical measures		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.			
	Local/Total ventilation		If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.			
	Advice on safe handling		Do not get on skin or clothing. Do not breathe vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.			
	Avoidance of contact	:	Oxidizing agents			
	Storage Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.			
	Materials to avoid		Do not store with the following product types:			

SDS Number:

10608701-00007

Materials to avoid : Do not store with the following product types:

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06		0S Number: 608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
			Organic peroxide Oxidizing agents Flammable gases Pyrophoric liquids Pyrophoric solids Self-heating subs Poisonous gases Explosives	tances and mixtures
Packa	aging material	:	Unsuitable mater	al: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
Estradiol	50-28-2	TWA	0.05 µg/m3 (OEB 5)	Internal
	Further information: Skin			
		Wipe limit	0.5 µg/100 cm ²	Internal

Engineering measures :	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. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required. Operations require the use of appropriate containment tech- nology designed to prevent leakage of compounds into the workplace.
	Use explosion-proof electrical, ventilating and lighting equip- ment.
Personal protective equipmer	ıt
Respiratory protection : Filter type :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Eye/face protection :	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.

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06	SDS Number: 10608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
Skin and body protection		Additional boo task being per posable suits)	or laboratory coat. by garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. tte degowning techniques to remove potentially clothing.
Hand protection			
Ma	aterial	: Chemical-resi	stant gloves
Re	emarks		ble gloving. Take note that the product is flam- may impact the selection of hand protection.
Hygie	ne measures	: If exposure to eye flushing s ing place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	gel
Colour	:	opalescent
Odour	:	aromatic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	22 °C
		Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Ignitable (see flash point)
Upper explosion limit / Upper flammability limit	:	No data available

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Vers 2.1	sion	Revision Date: 2024/04/06		S Number: 608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
	Lower e	explosion limit / Lower	:	No data available	
		bility limit			
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available)
	Density		:	No data available)
	Solubili Wate	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n- /water	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available)
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	characteristics size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Highly flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Exposure routes

: Inhalation

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version Revision Date: SDS Number: Date of last issue: 2023/09/30 2.1 2024/04/06 10608701-00007 Date of first issue: 2022/02/08	Version 2.1	Revision Date: 2024/04/06	SDS Number: 10608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
---	----------------	---------------------------	-------------------------------	---

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Ethanol:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour

Estradiol:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): > 300 mg/kg Application Route: Subcutaneous

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethanol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Ethanol:

Species	-	Rabbit
		Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

Estradiol:

Result	:	No eye irritation
--------	---	-------------------

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
2.1	2024/04/06	10608701-00007	Date of first issue: 2022/02/08

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Ethanol:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Result	:	negative

Estradiol:

Exposure routes	:	Skin contact
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethanol:

Genotoxicity in vitro :	Test Type: In vitro mammalian cell gene mutation test Result: negative
	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo :	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: equivocal
Estradiol:	
Genotoxicity in vitro :	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Test system: mammalian cells Result: positive
	Test Type: Chromosome aberration test in vitro Test system: mammalian cells Result: positive
	Test Type: Chromosomal aberration

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06		OS Number: 608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08				
			Test system: ma	mmalian cells				
			Result: positive					
Genc	Genotoxicity in vivo		: Test Type: Chromosomal aberration Species: Rat Cell type: Bone marrow Result: negative					
			Test Type: Chro Species: Mouse Cell type: Bone r Result: negative	mosomal aberration narrow				
	inogenicity cause cancer.							
<u>Com</u>	ponents:							
Expo LOAI Resu	ies cation Route sure time EL		Mouse Ingestion 24 Months 100 µg/kg positive female reproduc	tive organs				
Spec Appli Expo LOAE Resu	ies cation Route sure time EL		Rat Subcutaneous 13 weeks 20 mg/kg body v positive Endocrine system	veight				
Carci ment	nogenicity - Assess-	:	Positive evidenc	e from human epidemiological studies				
•	oductive toxicity damage fertility. May da	amag	e the unborn child	L				
<u>Com</u>	ponents:							
Etha Effec	nol: ts on fertility	:	Test Type: Two- Species: Mouse Application Rout Result: negative	generation reproduction toxicity study e: Ingestion				
Estra Effec	adiol: ts on fertility	:	Test Type: One- Species: Rat Application Rout	generation reproduction toxicity study e: Ingestion				
			11 / 18					

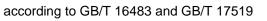
according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06	SDS Number: 10608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
		Fertility: LOAEL Result: Effects o	: 0.5 mg/kg body weight on fertility
		Species: Rat Duration of Sing	-generation reproduction toxicity study gle Treatment: 90 d : 0.69 mg/kg body weight on fertility
		Species: Mouse Application Rou	te: Oral : 0.1 mg/kg body weight
Effec ment	ts on foetal develop-	Species: Mouse Application Rou Teratogenicity: Symptoms: Mal	eryo-foetal development e, female te: Subcutaneous LOAEL: 4 mg/kg body weight formations were observed. Teratogenic effects
		Species: Rat Application Rou Teratogenicity: Symptoms: Rec	-generation reproduction toxicity study te: Subcutaneous LOAEL: 2.5 μg/kg body weight luced body weight Embryotoxic effects and adverse effects on ore detected.
		Species: Rat Application Rou Developmental Symptoms: Ear number of viable Result: Embryo	te: Subcutaneous Toxicity: LOAEL: 0.2 mg/kg body weight ly Resorptions / resorption rate, Reduced e fetuses, Reduced body weight toxic effects and adverse effects on the off- ected only at high maternally toxic doses
Repr sessi	oductive toxicity - As- ment	: May damage fe	rtility. May damage the unborn child.
	T - single exposure classified based on avail	able information.	
	T - repeated exposure		
	es damage to organs th	rough prolonged or re	epeated exposure.
	ponents:		
Estra	adiol:		

: Liver, Bone, Blood, Endocrine system





Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06		OS Number: 608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
Asse	ssment	:	Causes damage exposure.	e to organs through prolonged or repeated
Repe	eated dose toxicity			
Com	ponents:			
	ies EL	:	Rat 1,280 mg/kg 3,156 mg/kg Ingestion 90 Days	
Spec LOAI Appli Expc		:		l, Ovary, Uterus (including cervix), Liver, Bone, m, Blood, Testis
-	ration toxicity classified based on avail	lable	information.	
Expe	erience with human ex	posi	ıre	
Estra Inhal	contact	:	Symptoms: Skin Symptoms: Hea ness, Vomiting,	ling, Nose bleeding n irritation, Redness, pruritis Idache, Gastrointestinal disturbance, Dizzi- Diarrhoea, water retention, liver function is in libido, breast tenderness, menstrual irreg-
12. ECOL	OGICAL INFORMATIC	DN		
Ecot	oxicity			
Com	ponents:			
Etha Toxic	nol: sity to fish	:	LC50 (Pimepha Exposure time:	les promelas (fathead minnow)): > 1,000 mg/l 96 h
	city to daphnia and othe tic invertebrates	r:	EC50 (Ceriodap Exposure time:	hnia (water flea)): > 1,000 mg/l 48 h

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06		0S Number: 608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
Tox plar	icity to algae/aquatic Its	:	Exposure time: 72	
aqu ic to	icity to daphnia and other atic invertebrates (Chron- ixicity) icity to microorganisms	:	EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l Exposure time: 72 h NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d EC50 (Pseudomonas putida): 6,500 mg/l Exposure time: 16 h	
	radiol: icity to fish	:	LC50 (Oryzias lat Exposure time: 96	ipes (Japanese medaka)): 3.9 mg/l 5 h
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.7 mg/l Exposure time: 48 h	
	Toxicity to algae/aquatic plants		NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
Tox icity	icity to fish (Chronic tox-)	:	NOEC (Oryzias la Exposure time: 16 Method: OECD Te	
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia r Exposure time: 2 ²	nagna (Water flea)): 0.2 mg/l I d
M-F	actor (Chronic aquatic	:	1,000	
	toxicity) Toxicity to microorganisms		EC50: > 100 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	h ration inhibition
			NOEC: 100 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	ation inhibition

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version 2.1	Revision Date: 2024/04/06		OS Number: 608701-00007	Date of last issue: 2023/09/30 Date of first issue: 2022/02/08
Persi	istence and degradabi	lity		
Com	ponents:			
Etha	nol:			
Biode	egradability	:	Result: Readily Biodegradation: Exposure time: 2	84 %
Estra	adiol:			
Biode	egradability	:	Result: rapidly d Biodegradation: Exposure time: 2	84 %
Bioa	ccumulative potential			
Com	ponents:			
Etha	nol:			
	ion coefficient: n- nol/water	:	log Pow: -0.35	
Estra	adiol:			
	ion coefficient: n- nol/water	:	log Pow: 4.01	
Mobi	lity in soil			
Com	ponents:			
Distri	adiol: bution among environ- al compartments	:	log Koc: 3.81	
	r adverse effects ata 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. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
2.1	2024/04/06	10608701-00007	Date of first issue: 2022/02/08

14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	:	UN 1170 ETHANOL SOLUTION 3 II 3 yes
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 1170 Ethanol solution 3 II Flammable Liquids 364 353
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		UN 1170 ETHANOL SOLUTION (Estradiol) 3 II 3 F-E, S-D 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		
UN number	:	UN 1170
Proper shipping name	:	ETHANOL SOLUTION
Class	:	3
Packing group	:	II
Labels	:	3
Marine pollutant	:	yes

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.

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
2.1	2024/04/06	10608701-00007	Date of first issue: 2022/02/08

15. REGULATORY INFORMATION

16.

National regulatory information Law on the Prevention and Control of Occupational Diseases						
Regulations on Safe	ety Management of Hazardous	Cher	nicals			
Catalogue of Hazardo	ous Chemicals	:	Listed			
Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)No. / CodeChemical name / CategoryW5.3Flammable liquids1,000 t						
Regulation on the A	dministration of Precursor Ch	emic	als			
Catalogue and Classi	fication of Precursor Chemicals	:	Not listed			
Yangtze River Prote	ction Law					
This product does no	t contain any dangerous chemic	als pr	ohibited for inland river transport.			
The components of	this product are reported in th	ne fol	lowing inventories:			
AICS	: not determined					
DSL	: not determined					
IECSC	: not determined					
OTHER INFORMATIC	N					

Revision Date	:	2024/04/06		
Further information				
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH / STEL	:	Short-term exposure limit		

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

according to GB/T 16483 and GB/T 17519



Estradiol Gel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
2.1	2024/04/06	10608701-00007	Date of first issue: 2022/02/08

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.

CN / EN