

Version	Revision Date: 29.03.2018	SDS Number:	Date of last issue: 29.03.2018
4.1		13395	Date of first issue: 28.07.2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ZOLADEX FOR DEPOT/IMPLANT

Details of the supplier of the : safety data sheet	ASTRAZENECA PTY LTD PO Box 131 66 Talavera Rd, North Ryde NSW 2113 AUSTRALIA +61 2 9978 3500 SafetyDataSheets.AlderleyPark@at	Emergency Telephone +44 (0) 1235 239 670
Alternative Names Zoladex 3.6 mg and 10 mg Goserelin acetate in co-polymer matrix CAS No. :	Not applicable	
1.2 Relevant identified uses of the subst	ance or mixture and uses advis	ed against
Use of the Substance/Mixture :	Zoladex 3.6 mg:, Management o Breast cancer (iii) Endometriosis Endometrial thinning (vi) Assiste Zoladex 10.8 mg:, Management (ii) Endometriosis (iii) Uterine fibr	(iv) Uterine fibroids (v) d reproduction, ;, of: (i) Prostate cancer

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	Category 1B
GHS label elements Hazard pictograms	
Signal word Hazard statements	Danger H360 May damage fertility or the unborn child.
Precautionary statements	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.
	Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. Disposal:



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

Hazardous components which must be listed on the label: Goserelin acetate

Other hazards which do not result in classification See Section 11.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Goserelin acetate	145781-92-6	16.7 -23.1

SECTION 4. FIRST AID MEASURES

If inhaled	:	Remove patient from exposure. Obtain medical attention if ill effects occur.
In case of skin contact	:	Wash skin with soap and water.
In case of eye contact	:	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention if ill effects remain.
If swallowed	:	Wash out mouth with water and give 200-300ml of water to drink. Do NOT induce vomiting as a First-Aid measure. Obtain medical attention if ill effects occur.
Most important symptoms and effects, both acute and delayed	:	Refer to sections 2 and 11 May damage fertility or the unborn child.
Notes to physician	:	Symptomatic treatment and supportive therapy as indicated. For further detail consult the prescribing information.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	water spray, foam, dry powder or CO2.
Unsuitable extinguishing media	:	-
Specific hazards during firefighting	:	If involved in a fire, it may emit noxious and toxic fumes.
Special protective equipment for firefighters	:	A self contained breathing apparatus and full protective clothing should be worn in fire conditions.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure suitable personal protection during removal of spillages. See Section 8.
Environmental precautions	:	Prevent entry into drains, sewers or watercourses.
Methods and materials for containment and cleaning up	:	Clear up spillages. Wash the spillage area with water. Transfer to a container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin and eyes.
Conditions for safe storage	:	Keep only in the original container.
Recommended storage temperature	:	< 25 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Goserelin acetate	145781-92-6	TWA	0.005 mg/m3	COM; HYG
Engineering measures	should be bas controls to rec controls, for e use of person	eed on the risk as duce exposure m xample ventilation al protection equ		nte ng
		into drains, sew	ers or watercourses.	
Personal protective equipme	nt			
Respiratory protection		hood if the risk of other protectic	assessment does no n.	t support
Eye protection		risk assessment	against direct contact does not support the	
Skin and body protection	the product or chemical proto support the se protective glo	for repeated, exective suit if the election of other ves to protect ag	tect against direct co ccessive handling use risk assessment does protection. Use imper ainst direct contact w lived or wetted use a	e full s not rvious <i>v</i> ith the

Components with workplace control parameters



 Protective measures Decisions about whether the use of personal protective equipment (PPE) is appropriate as part of the control strategy should be based on the workplace risk assessment and should take account of local legislative requirements for selection and use. There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, external environmental conditions, the task, the user etc. All the information above should not be used in isolation and should be considered in the context of the workplace risk assessment on a case by case basis. 	Version 4.1	Revision Date: 29.03.2018	e: SDS Number: 13395	Date of last issue: 29.03.2018 Date of first issue: 28.07.2017
equipment (PPE) is appropriate as part of the control strateg should be based on the workplace risk assessment and should take account of local legislative requirements for selection and use. There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, external environmental conditions, the task, the user etc. All the information above should not be used in isolation and should be considered in the context of the workplace risk			material that	is resistant to the solvent/liquid.
The recommended personal protective equipment (PPE) is based on preventing the potential adverse health effects fror exposure to the active pharmaceutical ingredient (API). The risk of exposure to the API in the formulation/product needs to be taken into consideration.	Protec	ctive measures	equipment (F should be ba should take a selection and the specific r of the materia external envir All the inform should be co assessment The recomm based on pre exposure to b risk of expos	PPE) is appropriate as part of the control strategy ised on the workplace risk assessment and account of local legislative requirements for if use. There are multiple factors that will affect equirements such as amount and concentration al, duration of exposure, frequency of exposure, ronmental conditions, the task, the user etc. ation above should not be used in isolation and insidered in the context of the workplace risk on a case by case basis.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	depot
Colour	:	white-cream
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available



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	Relative	edensity	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Solu	bility in other solvents	:	No data available	
	Partition octanol	n coefficient: n- /water	:	No data available	
	Auto-igi	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	
	Explosi	ve properties	:	No data available	
	Oxidizir	ng properties	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No known reactivity hazard under normal conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	No conditions producing hazardous situations known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Not classified based on available information.

Components:

Goserelin acetate:

Acute oral toxicity	:	Remarks: Low acute toxicity.
Acute inhalation toxicity	:	Remarks: Low acute toxicity.
Acute dermal toxicity	:	Remarks: Low acute toxicity.



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	corrosion/irritation	ailable information.	
<u>Com</u>	ponents:		
	e relin acetate: arks: Unlikely to cause	e skin irritation.	
	ous eye damage/eye lassified based on ava		
<u>Com</u>	ponents:		
	e relin acetate: arks: Unlikely to cause	eye irritation.	
11.4 Resp	piratory or skin sensi	tisation	
•••••	sensitisation	ailable information.	
-	iratory sensitisation lassified based on ava	ailable information.	
Com	ponents:		
	e relin acetate: arks: Unlikely to cause	e skin sensitisation.	
Chronic t	oxicity		
Not c	n cell mutagenicity lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Germ	erelin acetate: a cell mutagenicity - ssment	: There is no evid vivo tests.	dence of genotoxic potential in in vitro and in
Not c	inogenicity lassified based on ava ponents:	ailable information.	
	relin acetate:		
Carci	nogenicity - ssment		hals have shown that repeated doses produce (benign)., The relevance to humans has not

11.7 Reproductive toxicity

May damage fertility or the unborn child.

been established.



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Components:

Goserelin acetate:

Reproductive toxicity -Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Repeated exposure produces adverse effects on the menstrual cycle in women causing suppression of ovulation, may cause interaction with maintenance of pregnancy, and produces a reduction in fertility in men.

11.8 STOT - single exposure

Not classified based on available information.

Components:

Goserelin acetate:

Remarks: No specific effects reported.

11.9 STOT - repeated exposure

Not classified based on available information.

Components:

Goserelin acetate:

Remarks: Interacts with hormonal system and may cause adverse effects including decreased libido, hot flushes, hyperhidrosis, acne, paraesthesia and skin rashes.

11.10 Aspiration toxicity

Not classified based on available information.

Components:

Goserelin acetate:

No information available.

Further information

Product:

Remarks: This health hazard assessment is based on a consideration of the composition of this product. Information refers to Goserelin acetate.

SECTION 12. ECOLOGICAL INFORMATION

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Ecotoxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity

This product has no known ecotoxicological effects. Remarks: The following information refers to active ingredient: Goserelin acetate.



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<u>Comp</u>	oonents:			
Gosei	relin acetate:			
	ty to fish	:	Remarks: No info	rmation available.
Persis	stence and degradabil	ity		
<u>Comp</u>	oonents:			
Gosei	relin acetate:			
Biode	gradability	:	Inoculum: activate Concentration: 50 Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T) mg/l iodegradable. 92 %
			Inoculum: activate Concentration: 10 Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	00 mg/l iodegradable. 72 %
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Gosei	relin acetate:			
Bioac	cumulation	:	Remarks: No info	rmation available.
Mobil	ity in soil			
<u>Comp</u>	oonents:			
Gose ı Mobili	relin acetate: ty	:	Remarks: No info	rmation available.
	oution among nmental compartments	:	Remarks: No info	prmation available.
	adverse effects ta available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Disposal should be in accordance with local, state or national legislation. Waste, even small quantities, should never be poured down drains, sewers or water courses. Dispose of contents/ container to an approved incineration



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Conta	minated packaging	plant. : Empty container hazard precautio	r will retain product residue. Observe all ons.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

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

In order to comply with legal duties it is necessary to consult local and national legislation.

Prohibition/Licensing Requirements

: There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:			
REACH	:	Not listed	
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.	
Goserelin acetate		145781-92-6	
AICS	:	Not listed	
ENCS	:	Not listed	
ISHL	:	Not listed	
IECSC	:	Not listed	
TCSI	:	Not listed	
TSCA	:	Not On TSCA Inventory	



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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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; 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

Further information

Revision Date	:	29.03.2018
Other information	:	New significant SHE information:, 8. New Occupational Exposure Limit Value, Minor changes:, 3, 11
Date format	:	dd.mm.yyyy

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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