

of

according to the Globally Harmonized System

Buserelin Formulation

Vers 3.0	sion	Revision Date: 28.09.2024		S Number: 3130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
1. P	RODUC	CT AND COMPANY ID	ENT	IFICATION	
	Produc	t name	:	Buserelin Formu	lation
	Other means of identification		:		ITHETIC GONADOTROPHIN RELEASING
	Manuf	acturer or supplier's o	deta	ils	
	Compa	any	:	MSD	
	Addres	S	:	Briahnager - Off Wagholi - Pune -	Pune Nagar Road India 412 207
	Teleph	one	:	+1-908-740-400	0
	Emerg	ency telephone numbe	r:	+1-908-423-6000	0
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recon	nmended use of the c	hem	ical and restriction	ons on use
		mended use tions on use	:	Veterinary produ Not applicable	ict

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification Skin sensitisation	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out

according to the Globally Harmonized System



Buserelin Formulation

Version 3.0	Revision Date: 28.09.2024	SDS Number: 658130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016	
		the workplace P280 Wear pr	otective gloves.	
	Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P317 If skin irritation or rash occurs: Get medical he P362 + P364 Take off contaminated clothing and wash it be reuse.			
Disposal: P501 Dispose of contents/ container to an approved was disposal plant.				

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 1 - < 5
Buserelin	68630-75-1	< 0.1

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 if symptoms occur.
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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
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. FIREFIGHTING MEASURES



according to the Globally Harmonized System

Buserelin Formulation

Ver 3.0	sion	Revision Date: 28.09.2024		S Number: 8130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuitable extinguishing media		:	None known.	
	Specific hazards during fire- fighting		:	Exposure to comb	oustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firef	protective equipment ighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures		Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE



according to the Globally Harmonized System

Buserelin Formulation

Version 3.0	Revision Date: 28.09.2024	SDS Number: 658130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
Tech Local Advic	nical measures /Total ventilation e on safe handling itions for safe storage	 See Engineerin CONTROLS/PI Use only with a Do not get on s Avoid breathing Do not swallow Avoid contact v Handle in acco practice, based sessment Take care to pr environment. Keep in proper Store in accord 	ng measures under EXPOSURE ERSONAL PROTECTION section. Idequate ventilation. Idenuite ventilation. Idenuite ventilation. Idenuite ventilation.
		Strong oxidizing	g agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Buserelin	68630-75-1	TWA	0.1 µg/m3 (OEB 5)	Internal
		Wipe limit	1 µg/100 cm ²	Internal

Components with workplace control parameters

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.	
Personal protective equipmen	t	
Respiratory protection : Filter type : Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Organic vapour type	
Material :	Chemical-resistant gloves	
Remarks : Eye protection :	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions,	



according to the Globally Harmonized System

Buserelin Formulation

Version 3.0	Revision Date: 28.09.2024	SDS Number: 658130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
Skin and body protection		Wear a facesh potential for di aerosols. : Work uniform o	ols, wear the appropriate goggles. ield or other full face protection if there is a rect contact to the face with dusts, mists, or or laboratory coat. y garments should be used based upon the task
Hygie	ene measures	suits) to avoid Use appropria contaminated : If exposure to	chemical is likely during typical use, provide eye
		place. When using do Contaminated workplace.	ns and safety showers close to the working o not eat, drink or smoke. work clothing should not be allowed out of the
		The effective c engineering cc appropriate de industrial hygie	nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid, Aqueous solution
Colour	:	colourless
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	5.7 - 6.3
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	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



according to the Globally Harmonized System

Buserelin Formulation

Vers 3.0	sion	Revision Date: 28.09.2024		S Number: 3130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
	Relative	e vapour density	:	No data available	9
	Relative density		:	No data available	9
	Density	,	:	1.004 g/cm ³	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	Not applicable	
	Decom	position temperature	:	No data available	9
	Viscosity Viscosity, kinematic		:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	characteristics size	:	No data available	9

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
		Method: Calculation method

according to the Globally Harmonized System



rsion	Revision Date: 28.09.2024		0S Number: 8130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
Comr	ononto			
	oonents:			
	yl alcohol: oral toxicity	:	LD50 (Rat): 1,200	
Acute		•	LD50 (Rat). 1,200	ліцуку
Acute	inhalation toxicity	:	LC50 (Rat): > 5.4 Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The tion toxicity	h dust/mist
Buse	relin:			
Acute	oral toxicity	:	LD50 (Rat): 400 r	ng/kg
			LD50 (Mouse): >	1,000 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 36 m Application Route	
			LD50 (Rat): > 500 Application Route	
			LD50 (Mouse): 56 Application Route	
			LD50 (Dog): > 10 Application Route	
Skin o	corrosion/irritation			
Not cl	assified based on availa	ble	information.	
Comp	oonents:			
Benzy	yl alcohol:			
Speci	es	:	Rabbit	
Metho		:	OECD Test Guide	eline 404
Resul	ι	•	No skin irritation	
Buse	relin:			
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
Seria	us eye damage/eye irri	tati	on	
	assified based on availa			
	oonents:	-		
Comp	yl alcohol:			
Comr Benzy Speci	yl alcohol: es	:	Rabbit	
Comp Benzy	yl alcohol: es od	:	OECD Test Guide	eline 405 reversing within 21 days

according to the Globally Harmonized System



Buserelin Formulation

ersion 0	Revision Date: 28.09.2024	SDS Number: 658130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
Buse	relin:		
Speci	es	: Rabbit	
Resu	lt	: No eye irritation	1
Resp	iratory or skin sens	itisation	
Skin	sensitisation		
May c	ause an allergic skin	reaction.	
	iratory sensitisation	n	
Resp	iratory sensitisation lassified based on av		
Resp	iratory sensitisatior lassified based on av ponents:		
Resp Not cl	lassified based on av		
Resp Not cl Comp Benz	lassified based on av ponents: yl alcohol: Type	railable information.	insult patch test (HRIPT)
Resp Not cl Com Benz Test	lassified based on av <u>ponents:</u> yl alcohol: Type sure routes	railable information. : Human repeat : Skin contact	insult patch test (HRIPT)
Resp Not cl Com Benz Test Expos Speci	lassified based on av <u>conents:</u> yl alcohol: Type sure routes es	railable information. : Human repeat : Skin contact : Humans	insult patch test (HRIPT)
Resp Not cl Com Benz Test	lassified based on av <u>conents:</u> yl alcohol: Type sure routes es	railable information. : Human repeat : Skin contact	insult patch test (HRIPT)
Resp Not cl Com Benz Test Expos Speci Resul	lassified based on av <u>conents:</u> yl alcohol: Type sure routes es	railable information. : Human repeat : Skin contact : Humans : positive	vidence of low to moderate skin sensitisati
Resp Not cl Com Benz Test Expos Speci Resul	lassified based on av <u>conents:</u> yl alcohol: Type sure routes es lt ssment	railable information. Human repeat Skin contact Humans positive Probability or e	vidence of low to moderate skin sensitisati
Resp Not cl Comp Benzy Test Expos Speci Resul Asses Buse	lassified based on av <u>conents:</u> yl alcohol: Type sure routes es lt ssment relin:	railable information. Human repeat Skin contact Humans positive Probability or e	vidence of low to moderate skin sensitisati
Resp Not cl Comp Benzy Test Expos Speci Resul Asses Buse	lassified based on av <u>conents:</u> yl alcohol: Type sure routes es lt ssment relin: sure routes es	 railable information. Human repeat Skin contact Humans positive Probability or e rate in humans 	vidence of low to moderate skin sensitisati

Not classified based on available information.

Components:

Benzyl alcohol:

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: Mouse Application Route: Intraperitoneal injection Result: negative
Buserelin:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: unscheduled DNA synthesis assay Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo

according to the Globally Harmonized System



Version 3.0	Revision Date: 28.09.2024		OS Number: 8130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
			cytogenetic assay Species: Mouse Application Route Result: negative	/) : Intraperitoneal injection
	nogenicity assified based on avai	lable	information.	
	oonents:			
Benzy	yl alcohol:			
Speci Applic	es cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
Buse	relin:			
Expos Resul	cation Route sure time	:	Rat Subcutaneous 24 Months negative Uterus (including	cervix), Pituitary gland, Testes
	oductive toxicity assified based on avai	lable	information.	
Comp	oonents:			
	yl alcohol:			
Effect	s on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	ro-foetal development : Ingestion
Buse	relin:			
	s on fertility	:	Species: Rat Application Route Fertility: LOAEL: (Result: Effects on	0.2 μg/kg fertility y/early embryonic development male : Subcutaneous

according to the Globally Harmonized System



)	Revision Date: 28.09.2024	SDS Number: 658130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
		Result: Effects	s on fertility
		Species: Mous	oute: Subcutaneous :L: 100 μg/kg
Effect ment	ts on foetal develop-	Species: Rat Application Ro Developmenta	nbryo-foetal development oute: Intravenous injection al Toxicity: LOAEL: 0.4 μg/kg body weight otoxic effects., Effects on early embryonic de
		Species: Rabb Developmenta	nbryo-foetal development bit al Toxicity: LOAEL: 0.1 μg/kg body weight otoxic effects., No specific developmental ab-
		Species: Mous Developmenta	nbryo-foetal development se al Toxicity: NOAEL: 0.1 μg/kg body weight otoxic effects., No effects on F1 offspring
Repro	oductive toxicity - As-	: May damage f	ertility.
	nent		
sessr			
sessr STO	nent - single exposure lassified based on avai	lable information.	
sessr STOT Not c	- single exposure		
SESSI STOT Not c STOT	- single exposure lassified based on avai		
STOT STOT Not c STOT	- single exposure lassified based on avai - repeated exposure		
STOT STOT Not c STOT Not c Repe	 single exposure lassified based on avai repeated exposure lassified based on avai 		
STOT STOT Not c STOT Not c Repe <u>Com</u>	 single exposure lassified based on avai repeated exposure lassified based on avai ated dose toxicity 		
STOT STOT Not c STOT Not c Repe <u>Com</u> Benz	- single exposure lassified based on avai - repeated exposure lassified based on avai ated dose toxicity <u>ponents:</u> yl alcohol:	lable information.	
STOT STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAR	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity <u>ponents:</u> yl alcohol: les EL	lable information. : Rat : 1.072 mg/l	
STOT STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAE Applie	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route	lable information. : Rat : 1.072 mg/l : inhalation (dus	st/mist/fume)
STOT STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAE Applie	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: EL cation Route sure time	lable information. : Rat : 1.072 mg/l	
STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAE Applic Expos	T - single exposure lassified based on avai T - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route sure time od	lable information. : Rat : 1.072 mg/l : inhalation (dus : 28 Days	
STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAE Applie Expos Metho	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route sure time od relin:	lable information. : Rat : 1.072 mg/l : inhalation (dus : 28 Days	
SESST STOT Not c STOT Not c Repe Com Benz Speci NOAR Applic Expos Metho Buse Speci LOAR	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route sure time od relin: les EL	lable information. : Rat : 1.072 mg/l : inhalation (dus : 28 Days : OECD Test G : Rat : 0.5 ug/kg/day	uideline 412
Sessr STOT Not c STOT Not c Repe Com Benz Speci NOAE Applie Expos Metho Speci LOAE Applie	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route sure time od relin: les	lable information. : Rat : 1.072 mg/l : inhalation (dus : 28 Days : OECD Test G : Rat	uideline 412
Sessr STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAE Applic Expos Metho Buse	T - single exposure lassified based on avai T - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route sure time od relin: les EL cation Route sure time	lable information. : Rat : 1.072 mg/l : inhalation (dus : 28 Days : OECD Test G : Rat : 0.5 ug/kg/day : Subcutaneous	uideline 412
Sessr STOT Not c STOT Not c Repe <u>Com</u> Benz Speci NOAE Applic Expos Metho Buse Speci LOAE Applic	F - single exposure lassified based on avai F - repeated exposure lassified based on avai ated dose toxicity ponents: yl alcohol: les EL cation Route sure time od relin: les EL cation Route sure time	lable information. : Rat : 1.072 mg/l : inhalation (dus : 28 Days : OECD Test Generation : Rat : 0.5 ug/kg/day : Subcutaneous : 14 Days	uideline 412

according to the Globally Harmonized System



Buserelin Formulation

Version 3.0	Revision Date: 28.09.2024	-	DS Number: 58130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
Expos Targe	sure time t Organs	:	28 Days Testis	
		:	Rabbit 20 ug/kg/day 4 Weeks Prostate, Pituitary	<i>r</i> gland, Testis
		:	Monkey 5 ug/kg/day 1 yr Ovary, Pituitary g	land
Expos		:	Dog 0.05 mg/kg Subcutaneous 30 Days Pituitary gland, Te	estis
Expos		:	Dog 0.05 mg/kg Subcutaneous 6 Months Reproductive org	ans
Aspir	ation toxicity			

Not classified based on available information.

Experience with human exposure

Components:

Buserelin:

Inhalation

: Symptoms: male reproductive effects, female reproductive effects, reduced libido, Headache, Rash, Gastrointestinal disturbance, mental depression, Local irritation Remarks: May damage fertility. Based on Human Evidence

12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Benzyl alcohol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770

according to the Globally Harmonized System



Version 3.0	Revision Date: 28.09.2024		0S Number: 8130-00020	Date of last issue: 06.07.2024 Date of first issue: 03.05.2016
plan	ts		mg/l Exposure time: 72 Method: OECD T NOEC (Pseudok mg/l Exposure time: 72 Method: OECD T	est Guideline 201 irchneriella subcapitata (green algae)): 310 2 h
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
Bus	erelin:			
Eco	toxicology Assessment			
Acut	te aquatic toxicity	:	No data available	
Chro	onic aquatic toxicity	:	No data available	
Pers	sistence and degradabili	ity		
Com	nponents:			
	zyl alcohol: legradability	:	Result: Readily bi Biodegradation: Exposure time: 14	92 - 96 %
Bioa	accumulative potential			
<u>Com</u>	<u>iponents:</u>			
Parti	zyl alcohol: ition coefficient: n- nol/water	:	log Pow: 1.05	
	ility in soil lata available			
	er adverse effects lata available			
13. DISP	OSAL CONSIDERATION	IS		
-	oosal methods te from residues	:	Do not dispose of	waste into sewer.

Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
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.



according to the Globally Harmonized System

Buserelin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
3.0	28.09.2024	658130-00020	Date of first issue: 03.05.2016

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

Revision Date	:	28.09.2024
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/

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

Date format : dd.mm.yyyy

Full text of other abbreviations

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

according to the Globally Harmonized System



Buserelin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
3.0	28.09.2024	658130-00020	Date of first issue: 03.05.2016

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

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.

IN / EN