

## **Mianserin Formulation**

Version 2.3	Revision Date: 23.03.2020		DS Number: 01079-00007	Date of last issue: 13.09.2019 Date of first issue: 01.05.2017
SECTIO	ON 1: Identification of t	the	substance/mixtu	ure and of the company/undertaking
	duct identifier Ide name	÷	Mianserin Formula	ation
1.2 Rele	evant identified uses of th	ne s	substance or mixtu	ure and uses advised against
•••	e of the Sub- nce/Mixture	:	Pharmaceutical	
1.3 Deta	ails of the supplier of the	saf	ety data sheet	
Co	mpany	:	Organon & Co. 30 Hudson Street 07302 Jersey Cit	, 33nd floor y, New Jersey, U.S.A
Tel	ephone	:	551-430-6000	
	nail address of person ponsible for the SDS	:	EHSSTEWARD@	organon.com
	ergency telephone numb 5-631-6999	er		

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 2

Specific target organ toxicity - single exposure, Category 1

#### 2.2 Label elements

Signal word

Hazard statements

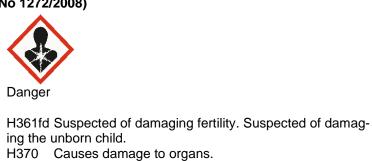
#### Labelling (REGULATION (EC) No 1272/2008)

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÷

2

Hazard pictograms



Precautionary statements

Prevention:

P201 Obtain special instructions before use.

H361fd: Suspected of damaging fertility. Suspected

of damaging the unborn child. H370: Causes damage to organs.

- P260 Do not breathe dust.
- P264 Wash skin thoroughly after handling.



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			t eat, drink or smoke when using protective gloves/ protective clot ection.			
		<b>Response:</b> P308 + P311 CENTER/ doc	IF exposed or concerned: Call stor.	a POISON		
	rdous components wh serin hydrochloride	nich must be listed or	n the label:			
2.3 Other None	<b>hazards</b> known.					
SECTIO	N 3: Composition/i	nformation on ing	redients			
3.2 Mixtu	res					
Com	ponents					
Cher	nical name	CAS-No	Classification	Concentration		

Chemical name	CAS-No.	Classification	Concentration				
	EC-No.		(% w/w)				
	Index-No.						
	Registration number						
mianserin hydrochloride	21535-47-7	Acute Tox.4; H302	>= 10 - < 20				
	244-426-7	Repr.2; H361fd					
		STOT SE1; H370					
For explanation of abbreviations see	For explanation of abbreviations see section 16.						

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	In the case of accident or if you feel unwell, seek me vice immediately. When symptoms persist or in all cases of doubt see advice.	
Protection of first-aiders	First Aid responders should pay attention to self-pro and use the recommended personal protective equi when the potential for exposure exists (see section	pment
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 of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	and plenty
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persi	sts.



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If	If swallowed		<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>				
4.2 M	ost important symptor	ns and e	ffects, both ac	ute and delayed			
F	Risks	:	Suspected of d unborn child. Causes damag	amaging fertility. Suspected of damaging the let organs.			
4.3 In	dication of any immed	liate med	lical attention a	and special treatment needed			
Т	reatment	:	Treat symptom	atically and supportively.			
SEC	TION 5: Firefighting	measur	es				
5.1 Ex	xtinguishing media						
	Suitable extinguishing m	edia :	Water spray Alcohol-resista Carbon dioxide Dry chemical				
	Jnsuitable extinguishing nedia	:	None known.				
5.2 Sp	pecial hazards arising	from the	substance or	mixture			
	Specific hazards during f ighting	ire- :	Exposure to co	mbustion products may be a hazard to health.			
	lazardous combustion p icts	orod- :	Carbon oxides Metal oxides Oxides of phos Silicon oxides	phorus			
5.3 Ao	dvice for firefighters						
	Special protective equipr or firefighters	nent :		fire, wear self-contained breathing apparatus. rotective equipment.			
	Specific extinguishing me ods	eth- :	cumstances an Use water spra	ing measures that are appropriate to local cir- id the surrounding environment. by to cool unopened containers. naged containers from fire area if it is safe to do			
			Evacuate area.				

### **SECTION 6:** Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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6.2 Enviro	onmental precautions		
Envir	onmental precautions	Prevent furthe Retain and di	o the environment must be avoided. er leakage or spillage if safe to do so. spose of contaminated wash water. ies should be advised if significant spillages ntained.
6.3 Metho	ods and material for c	ontainment and cle	aning up
Metho	ods for cleaning up	tainer for disp Local or natio posal of this r employed in t mine which re Sections 13 a	vacuum up spillage and collect in suitable con- osal. nal regulations may apply to releases and dis- naterial, as well as those materials and items he cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding or national requirements.
6 4 Refere	ence to other section	s	
	ons: 7, 8, 11, 12 and 13	-	

## 7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-
		sessment
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye
		flushing systems and safety showers close to the working
		place. When using do not eat, drink or smoke. Wash contami-
		nated clothing before re-use.
7.2 Conditions for safe storage, i	incl	luding any incompatibilities
Requirements for storage	:	Keep in properly labelled containers. Store locked up. Store in
areas and containers		accordance with the particular national regulations.
Advice on common storage		Do not store with the following product types:
, allos en conmencerage	•	Strong oxidizing agents
		Organic peroxides
		Explosives
		Gases
7.3 Specific end use(s)		
Specific use(s)		No data available



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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Starch	9005-25-8	TWA OEL-RL (Respirable dust)	5 mg/m3	ZA OEL
	Further inform	nation: Recommende	ed Limit	
		TWA OEL-RL (inhalable dust)	10 mg/m3	ZA OEL
mianserin hydro- chloride	21535-47-7	TWA	20 µg/m3 (OEB 3)	Internal
	Further inform	Further information: Skin		
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal

#### 8.2 Exposure controls

#### **Engineering measures**

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment				
Eye protection	:	Wear the following personal protective equipment: Safety glasses		
Hand protection		Suloty glacood		
Material	:	Chemical-resistant gloves		
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.		
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).		
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
Filter type	:	Particulates type (P)		

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties



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Appeara Colour Odour Odour T	ance Threshold	: :	Crystalline solid white to off-white No data available No data available	9
рН		:	No data available	2
Melting	point/freezing point	:	No data available	2
	piling point and boiling	:	No data available	2
range Flash po	pint	:	Not applicable	
Evapora	ation rate	:	No data available	9
Flamma	bility (solid, gas)	:	Not classified as	a flammability hazard
	xplosion limit / Upper pility limit	:	No data available	
	xplosion limit / Lower pility limit	:	No data available	2
Vapour	pressure	:	No data available	9
Relative	e vapour density	:	No data available	9
Relative	edensity	:	No data available	9
Density		:	No data available	9
Partitior octanol/	er solubility n coefficient: n-	:	No data available No data available No data available	9
Decomp	oosition temperature	:	No data available	9
Viscosit Visco	y osity, kinematic	:	No data available	9
Explosiv	ve properties	:	Not explosive	
Oxidizin	g properties	:	The substance of	r mixture is not classified as oxidizing.
9.2 Other in	formation			
	bility (liquids)	:	No data available	9
Molecul	ar weight	:	Not applicable	
Particle	size	:	No data available	9



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SECTION	10: Stability and r	eactivity	
10.1 Reac	<b>tivity</b> lassified as a reactivity	/ hazard	
10.2 Cher	nical stability e under normal conditi		
10.3 Poss	ibility of hazardous I	eactions	
Haza	rdous reactions	: Can react with	strong oxidizing agents.
	litions to avoid itions to avoid	: None known.	
10.5 Incoi	npatible materials		
Mater	ials to avoid	: Oxidizing ager	nts
No ha		on products are known	
SECTION	11: Toxicological	information	
	mation on toxicologi		
	Information on likely routes of : Skin contact exposure Ingestion Eye contact		
	e toxicity lassified based on ava	ilable information.	
Prod	uct:		
Acute	e oral toxicity	: Acute toxicity e Method: Calcul	stimate: > 2.000 mg/kg ation method
Com	oonents:		
mian	serin hydrochloride:		
Acute	oral toxicity	: LD50 (Rat): 780	) mg/kg
		LD50 (Mouse):	224 mg/kg
	e toxicity (other routes histration)	of : LD50 (Mouse): Application Rou	32 mg/kg ute: Intravenous
	corrosion/irritation lassified based on ava	ilable information.	
Com	oonents:		
<b>mian</b> Rema	<b>serin hydrochloride:</b> arks	: Not classified d	ue to lack of data.
		7 / 13	



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	u <b>s eye damage/eye ir</b> lassified based on avail		
Com	ponents:		
<b>mian</b> Rema	<b>serin hydrochloride:</b> arks	: Not classified c	lue to lack of data.
Resp	iratory or skin sensiti	sation	
-	sensitisation lassified based on avail	able information.	
-	iratory sensitisation lassified based on avail	able information.	
<u>Com</u>	ponents:		
<b>mian</b> Rema	<b>serin hydrochloride:</b> arks	: Not classified c	lue to lack of data.
Not c	n cell mutagenicity lassified based on avail ponents:	able information.	
	serin hydrochloride: toxicity in vitro	: Test Type: gen Result: positive	
		Result: negativ	eterial reverse mutation assay (AMES) e ed on data from similar materials
		Result: negativ	er chromatid exchange assay e ed on data from similar materials
		Result: negativ	itro mammalian cell gene mutation test e ed on data from similar materials
		Result: negativ	cheduled DNA synthesis assay e ed on data from similar materials
Geno	toxicity in vivo	: Test Type: Mic Species: Rat Cell type: Bone Application Roo Result: negativ Remarks: Base	e marrow ute: Oral



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	<b>ogenicity</b> assified based on ava	ilable	information.	
<u>Comp</u>	onents:			
mians	erin hydrochloride:			
Remar	ks	:	Not classified d	ue to lack of data.
-	ductive toxicity cted of damaging fert	ility. S	uspected of dam	naging the unborn child.
<u>Comp</u>	onents:			
mians	erin hydrochloride:			
Effects	s on fertility	:		
Effects ment	on foetal develop-	:	Developmental	elopment ite: Subcutaneous Toxicity: LOAEL: 10 mg/kg body weight on postnatal development
				elopment Toxicity: LOAEL: 3 mg/kg body weight lethal effects, No teratogenic effects
			Test Type: Dev Species: Rabbi Result: Reduce	
Repro	ductive toxicity - As-	:	Suspected of daughted	amaging fertility. Suspected of damaging the

### STOT - single exposure

Causes damage to organs.



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<u>Co</u>	mponents:			
mia	anserin hydrochloride:			
	rget Organs	: Central nervous	system	
	sessment	: Causes damage to organs.		
ST	OT - repeated exposure			
No	t classified based on avail	able information.		
Re	peated dose toxicity			
<u>Co</u>	mponents:			
mia	anserin hydrochloride:			
•	ecies	: Rat		
	AEL	: 30 mg/kg		
	plication Route	: Oral : 6 Months		
	marks		verse effects were reported	
Sp	ecies	: Dog		
-	AEL	: 3 - 30 mg/kg		
	plication Route	: Oral		
	posure time	: 6 Months	oight	
Syl	mptoms	: Reduced body w	eight	
	piration toxicity			
No	t classified based on avail	able information.		
Ex	perience with human exp	oosure		
<u>Co</u>	mponents:			
mia	anserin hydrochloride:			
Inh	alation		e harmful if inhaled. ion of respiratory tract.	
Ski	n contact		e absorbed through skin.	
	e contact	: Remarks: May ir		
Ing	estion	: Symptoms: centr pation, Headach	al nervous system effects, dry mouth, consti- e, Tremors	

## **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### **Components:**

mianserin hydrochloride:





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	ion coefficient: n- ool/water	: log Pow: 3,36	
	i <b>lity in soil</b> ata available		
	<b>ilts of PBT and vPvB</b> elevant	assessment	
	<b>r adverse effects</b> ata available		
SECTION	N 13: Disposal cons	siderations	
13.1 Wast	te treatment methods	i	
Produ	uct	According to th are not product Waste codes s	ccordance with local regulations. e European Waste Catalogue, Waste Codes specific, but application specific. hould be assigned by the user, preferably in the waste disposal authorities.
Conta	aminated packaging		ers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

### **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

Remarks

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

15.1 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



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DSL	: not determined				
IECSC	: not determined	not determined			
<b>15.2 Chemical safety assessment</b> A Chemical Safety Assessment has not been carried out.					
SECTION 16: Other informati	on				
Other information		Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.			
Full text of H-Statements					
H302	: Harmful if swallo	wed.			
H361fd	: Suspected of da unborn child.	Suspected of damaging fertility. Suspected of damaging the unborn child.			
H370	: Causes damage	Causes damage to organs.			
Full text of other abbreviations					
Acute Tox.	: Acute toxicity				
Repr.	: Reproductive toxicity				
STOT SE	: Specific target organ toxicity - single exposure				
ZA OEL		zardous Chemical Substances Regulations,			
Occupational Exposure Limits ZA OEL / TWA OEL-RL : Long term occupational exposure limits - re		posure Limits pational exposure limits - recommended limit			
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inlar					

Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International



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Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance 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

#### **Further information**

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

Classification of the mixtur	Classification procedure:	
Repr. 2	H361fd	Calculation method
STOT SE 1	H370	Calculation method

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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