

# **Mianserin Formulation**

Version 2.0	Revision Date: 06.04.2024		S Number: 1085-00013	Date of last issue: 30.09.2023 Date of first issue: 01.05.2017	
Section 1:	Identification				
Produ	Product identifier		Mianserin Formulation		
Recor	mmended use of the	chem	ical and restrie	ctions on use	
Recor	nmended use	:	Pharmaceutic	al	
Restrictions on use		:	Not applicable		
Manu	facturer or supplier'	s detai	ls		
Comp	any	:	Organon & Co	).	
Addre	SS	: 30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302			
Telepł	Telephone : +1-551-430-6000		000		
Emerç	gency telephone num	ber :	+1-215-631-6	999	
E-mai	l address	:	EHSSTEWAR	D@organon.com	
Section 2:	Hazard identificatio	on			

Classification of the substance or mixture				
Reproductive toxicity	:	Category 2		
Specific target organ toxicity - single exposure	:	Category 1 (Central nervous system)		

### GHS Label elements, including precautionary statements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H361fd Suspected of damaging fertility. Suspected of damag- ing the unborn child. H370 Causes damage to organs (Central nervous system).
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling.



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		P280 Wear prote	t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protec- tion/ hearing protection.
		Response:	
		P308 + P311 IF CENTER/ docto	exposed or concerned: Call a POISON r.
		Storage:	
		P405 Store lock	ed up.
		Disposal:	
		P501 Dispose o disposal plant.	f contents/ container to an approved waste
Other	hazards which do no	t result in classificati	on

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mix	xture
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Components

None known.

Chemical name	CAS-No.	Concentration (% w/w)
mianserin hydrochloride	21535-47-7	>= 10 -< 20
Starch	9005-25-8	>= 10 -< 20

#### Section 4: First-aid measures

Description of necessary	first-aid measures
General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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>
Most important symptoms	and effects, both acute and delayed

Risks : Suspected of damaging fertility. Suspected of damaging the



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Prote	ction of first-aiders	: First Aid I and use t	nild. amage to organs. responders should pay attention to self-protection, he recommended personal protective equipment potential for exposure exists (see section 8).
Indic	ation of any immediate		ntion and special treatment needed
Treat	ment	: Treat syn	nptomatically and supportively.
Section 5	: Fire-fighting measure	s	
Exting	guishing media		
Suita	ble extinguishing media	Alcohol-re	esistant foam ioxide (CO2)
Unsu media	itable extinguishing a	: None kno	
Spec	ial hazards arising from	n the substan	ce or mixture
-	ific hazards during fire-		to combustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	: Carbon o Metal oxid Oxides of Silicon ox	des phosphorus
Spec	ial protective actions for	or fire-fighters	5
for fir	ial protective equipment efighters ific extinguishing meth-	Use perso Use extin cumstanc Use wate Remove so.	ent of fire, wear self-contained breathing apparatus. onal protective equipment. guishing measures that are appropriate to local cir- tes and the surrounding environment. r spray to cool unopened containers. undamaged containers from fire area if it is safe to de
		Evacuate	area.
Section 6	: Accidental release me	easures	
	precautions, protective onal precautions	: Use perso Follow sa	nd emergency procedures onal protective equipment. fe handling advice (see section 7) and personal pro- uipment recommendations (see section 8).
	ental precautions		pase to the environment

Environmental precautions	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>

#### Methods and materials for containment and cleaning up



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Metho	ods for cleaning up	over the area to Add excess liqui Soak up with ine Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ith absorbents and place a damp covering minimise entry of the material into the air. d to allow the material to enter into solution. ent absorbent material. ing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding national requirements.

#### Section 7: Handling and storage

#### Precautions for safe handling

Technical measures:Local/Total ventilation:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation.
Advice on safe handling :	Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. 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 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Hygiene measures :	environment. 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 contaminated clothing before re-use.
Conditions for safe storage, in	cluding any incompatibilities
Conditions for safe storage :	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid :	

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

**Occupational Exposure Limits** 



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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
mianserin hydrochloride	21535-47-7	TWA	20 µg/m3 (OEB 3)	Internal
	Further inform	ation: Skin		
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
Starch	9005-25-8	PEL (long	10 mg/m3	SG OEL
		term)		
		TWA	10 mg/m3	ACGIH

Appropriate engineering : control measures	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.			
Individual protection measure	s, such as personal protective equipment (PPE)			
Eye/face protection :	Wear the following personal protective equipment: Safety glasses			
Skin protection :	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective			
Respiratory protection :	clothing (gloves, aprons, boots, etc). If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Filter type : Hand protection	Particulates type			
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.			

## Section 9: Physical and chemical properties

Appearance	:	Crystalline solid
Colour	:	white to off-white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available



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	Initial bo range	piling point and boiling	:	No data available	)
F	Flash p	oint	:	Not applicable	
E	Evapora	ation rate	:	No data available	)
F	Flamma	ability (solid, gas)	:	Not classified as	a flammability hazard
F	Flamma	ability (liquids)	:	No data available	)
		explosion limit / Upper bility limit	:	No data available	•
		explosion limit / Lower bility limit	:	No data available	
١	Vapour	pressure	:	No data available	)
F	Relative	e vapour density	:	No data available	)
<b>H</b> F	Relative	e density	:	No data available	)
<b>II</b>	Density		:	No data available	)
ç	Solubilit Wate	ty(ies) er solubility	:	No data available	•
		n coefficient: n-	:	No data available	)
	octanol/ Auto-igr	nition temperature	:	No data available	)
[	Decomp	position temperature	:	No data available	)
١	Viscosit Visc	y osity, kinematic	:	No data available	
E	Explosiv	ve properties	:	Not explosive	
(	Oxidizin	ng properties	:	The substance or	mixture is not classified as oxidizing.
ſ	Molecul	ar weight	:	Not applicable	
	Particle Particle	characteristics size	:	No data available	

## Section 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.



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tions Cond Incom	bility of hazardous reac- itions to avoid npatible materials rdous decomposition icts	:	None known. Oxidizing agents	ecomposition products are known.
Section 1	1: Toxicological inform	atic	n	
Inforn expos	nation on likely routes of sure	:	Skin contact Ingestion Eye contact	
Acute	e toxicity			
	assified based on availa	ble	information.	
Produ Acute	u <u>ct:</u> e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method
<u>Com</u>	oonents:			
mian	serin hydrochloride:			
Acute	oral toxicity	:	LD50 (Rat): 780 r	ng/kg
			LD50 (Mouse): 22	24 mg/kg
	toxicity (other routes of histration)	:	LD50 (Mouse): 32 Application Route	
Starc	h:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Not c	corrosion/irritation lassified based on availa	ble	information.	
	oonents:			
Rema	serin hydrochloride: arks	:	Not classified due	e to lack of data.
Not c	us eye damage/eye irri assified based on availa conents:			
	serin hydrochloride:	:	Not classified due	e to lack of data.

Genotoxicity in vivo





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Starc	h:		
Speci		: Rabbit	
Resu	lt	: No eye irritat	ion
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
Not c	lassified based on ava	ailable information.	
•	iratory sensitisation		
Not c	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
mian	serin hydrochloride:	:	
Rema	arks	: Not classified	due to lack of data.
01			
Starc		NA	<b>T</b>
Test	i ype sure routes	: Maximisation : Skin contact	lest
Speci		: Guinea pig	
Resu		: negative	
Germ	cell mutagenicity		
	lassified based on ava	ailable information.	
Com	ponents:		
mian	serin hydrochloride:	:	
Geno	toxicity in vitro	: Test Type: ge Result: positi	ene mutation test ve
		Result: negat	acterial reverse mutation assay (AMES) tive sed on data from similar materials
		Test Type: si Result: nega	ster chromatid exchange assay tive

Cell type: Bone marrow

Test Type: Micronucleus test

**Result:** negative

**Result: negative** 

Species: Rat

:

Remarks: Based on data from similar materials

Remarks: Based on data from similar materials

Test Type: unscheduled DNA synthesis assay

Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test



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		Application Rou Result: negative Remarks: Base	
II Starc	h:		
Genot	toxicity in vitro	: Test Type: Back Result: negative	erial reverse mutation assay (AMES)
	nogenicity assified based on availa	able information.	
<u>Comp</u>	oonents:		
mians Rema	<b>serin hydrochloride:</b> urks	: Not classified d	ue to lack of data.
-	oductive toxicity ected of damaging fertili	ty. Suspected of dam	aging the unborn child.
<u>Comr</u>	oonents:		
	serin hydrochloride: s on fertility		
			•
Effect ment	s on foetal develop-	Developmental	elopment te: 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: Rabbit Result: Reduce	
		Test Type: Deve Species: Mouse	



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			al Toxicity: NOAEL: 30 mg/kg body weight fects on foetal development				
Repro sessn	oductive toxicity - As- nent	: Suspected of unborn child.					
	- single exposure		4 )				
	es damage to organs (0 <u>ponents:</u>	central nervous sys	tem).				
	serin hydrochloride:						
	et Organs	: Central nervo : Causes dama					
	- repeated exposure assified based on avail	able information.					
Repe	ated dose toxicity						
<u>Com</u>	oonents:						
mian	serin hydrochloride:						
	EL cation Route sure time	: Rat : 30 mg/kg : Oral : 6 Months : No significant	adverse effects were reported				
Speci LOAE Applic Expos Symp	L cation Route sure time	: Dog : 3 - 30 mg/kg : Oral : 6 Months : Reduced bod	y weight				
Starc	h:						
Speci NOAE Applic	es EL cation Route sure time	: Rat : >= 2,000 mg/ : Skin contact : 28 Days : OECD Test G					
-	ation toxicity assified based on avail	able information.					
Expe	rience with human ex	posure					
<u>Comp</u>	oonents:						
mians Inhala	serin hydrochloride: ation	: Remarks: Ma	y be harmful if inhaled.				



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	contact contact tion	:     :   : ;	Remarks: Can I May irritate skin Remarks: May i	rritate eyes. tral nervous system effects, dry mouth, cons
ection 1	2: Ecological informa	tion		
<b>Toxic</b> No da	c <b>ity</b> ata available			
	<b>stence and degradab</b> ata available	oility		
Bioa	ccumulative potential	l		
Com	ponents:			
Partit	<b>serin hydrochloride:</b> ion coefficient: n- ol/water	:	og Pow: 3.36	
	<b>lity in soil</b> ata available			
	r adverse effects ata available			

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

### Section 14: Transport information

### International Regulations

UNRTDG		
UN number	:	Not applicable
UN proper shipping name	:	Not applicable
Transport hazard class(es)	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	Not applicable



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Class Subs Pack Labe Pack aircra Pack	idiary risk ing group Is ing instruction (cargo				
UN n UN p Class Subs Pack Labe EmS	idiary risk ing group		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regula- tions: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.				
Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazard- ous Substances) Regulations				
Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations				
The components of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			
IECSC	: not determined			

### Section 16: Other information

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Further information	



### Mianserin Formulation

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	ces of key data used to ile the Safety Data t	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.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					
ACG SG C		:	Singapore. Workp	eshold Limit Values (TLV) blace Safety and Health (General Provisions) it Schedule Permissible Exposure Limits of	

ACGIH / TWA SG OEL / PEL (long term)		8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term
SG OEL / PEL (long term)	•	Permissible Exposure Level (PEL) Long Term

Toxic Substances.

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

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



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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.

SG / EN