

Posaconazole Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
9.7	26.09.2023	22510-00022	Date of first issue: 16.10.2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Posaconazole Injection Formulation

Manufacturer or supplier's details							
Company name of supplier	:	MSD					
Address	:	126 E. Lincoln Avenue					
		Rahway, New Jersey U.S.A. 07065					
Telephone	:	908-740-4000					
Emergency telephone	:	1-908-423-6000					
E-mail address	:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use							

Recommended use : Pharmaceutical

Destriction and the Nethers Parking		-	
Restrictions on use : Not applicable	Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Adrenal gland, Bone marrow, Kidney, Liver, Nerv- ous system, Reproductive organs)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Adrenal gland, Bone marrow, Kidney, Liver, Nervous system, Reproductive organs) through prolonged or repeated exposure if swallowed.
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 mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.





ersion .7	Revision Date: 26.09.2023	SDS Number: 22510-00022	Date of last issue: 20.03.2023 Date of first issue: 16.10.2014
		P308 + P313 attention. P333 + P313 attention.	2 IF ON SKIN: Wash with plenty of water. 3 IF exposed or concerned: Get medical advice/ 3 If skin irritation or rash occurs: Get medical advice/ 4 Take off contaminated clothing and wash it before
		Storage: P405 Store I	ocked up.
		Disposal:	e of contents/ container to an approved waste dis-
	e r hazards e known.		
ECTION	3. COMPOSITION/I	NFORMATION ON II	NGREDIENTS
Subs	stance / Mixture	: Mixture	
Com	ponents		
01			

Chemical name	CAS-No.	Concentration (% w/w)
.betaCyclodextrin, sulfobutyl ethers, sodium	182410-00-0	>= 30 -< 50
salts		
Posaconazole	171228-49-2	>= 1 -< 5

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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 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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Diarrhea Fever Headache Nausea



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	Protection of first-aiders Notes to physician		Suspected of d Causes damag exposure if swa First Aid respon and use the rea when the poter	allergic skin reaction. damaging the unborn child. ge to organs through prolonged or repeated vallowed. onders should pay attention to self-protection, ecommended personal protective equipment ntial for exposure exists (see section 8). natically and supportively.	
SECTION	5. FIRE-FIGHTING ME	ASL	IRES		
Suita	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical		
medi		:	None known.		
fighti		:		mbustion products may be a hazard to health.	
Haza ucts	rdous combustion prod-	:	Carbon oxides Sulfur oxides Metal oxides		
Spec ods	ific extinguishing meth-	:	cumstances an Use water spra	ing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. naged containers from fire area if it is safe to do	
	ial protective equipment e-fighters	:		fire, wear self-contained breathing apparatus. protective equipment.	
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES		
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe ha	protective equipment. ndling advice (see section 7) and personal pment recommendations (see section 8).	
Envir	onmental precautions	:	Prevent further Prevent spread oil barriers). Retain and disp	to the environment. I leakage or spillage if safe to do so. ding over a wide area (e.g., by containment or pose of contaminated wash water. es should be advised if significant spillages ained.	
	ods and materials for ainment and cleaning up	:	For large spills containment to	nert absorbent material. , provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate	

container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and



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		employed in th determine whi Sections 13 a	s material, as well as those materials and items ne cleanup of releases. You will need to ich regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTION	I 7. HANDLING AND ST	ORAGE	
Tech	inical measures		ing measures under EXPOSURE PERSONAL PROTECTION section.
Loca	I/Total ventilation	: Use only with	adequate ventilation.
Advi	ce on safe handling		skin or clothing.
			e mist or vapors.
		Do not swallow	
		Avoid contact	proughly after handling.
			ordance with good industrial hygiene and safety
			d on the results of the workplace exposure
		assessment	
			ink or smoke when using this product.
		•	prevent spills, waste and minimize release to the
Llvai		environment.	chemical is likely during typical use, provide eye
riygi	ene measures		ms and safety showers close to the working
		•	o not eat, drink or smoke.
		Contaminated workplace.	work clothing should not be allowed out of the
			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.
Cond	ditions for safe storage		rly labeled containers.
Con			dance with the particular national regulations.
Mate	erials to avoid		vith the following product types:
		Strong oxidizi	
			substances and mixtures
		Organic perox	lides
		Explosives Gases	
		Gases	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Posaconazole	171228-49-2	TWA	300 µg/m3 (OEB 2)	Internal



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Engineering measures		:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.			
Perso	onal protective equipme	ent				
·	iratory protection ter type	:	exposure assess	exhaust ventilation is not available or ment demonstrates exposures outside the uidelines, use respiratory protection.		
Hand	protection aterial	:	Chemical-resista	nt gloves		
Eye protection		:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition 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.			
Skin a	and body protection	: Work uniform or I		laboratory coat.		
CTION	9. PHYSICAL AND CH	EMI	CAL PROPERTIE	S		
Appe	arance	:	Aqueous solutio	n		
Color		:	Colorless to pale	e yellow		
Odor		:	odorless			
Odor	Threshold	:	No data availabl	e		
рН		:	2.6			
Meltir	ng point/freezing point	:	No data availabl	e		
	Initial boiling point and boiling range		No data availabl	e		
Flash	point	:	No data availabl	e		
Evap	oration rate	:	No data availabl	e		
Flam	mability (solid, gas)	:	Not applicable			
Flam	mability (liquids)	:	No data availabl	e		
	r explosion limit / Upper nability limit	:	No data availabl	e		
Lowe	r explosion limit / Lower	:	No data availabl	e		



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Vapor pressure		:	No data available	e	
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	/	:	1.15 g/cm ³	
	Solubili Wat	ity(ies) er solubility	:	No data available	e
	Partition coefficient: n-		:	Not applicable	
	octanol/water Autoignition temperature Decomposition temperature		:	No data available	9
			:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	e
	Explosi	ve properties	:	Not explosive	
		ng properties lar weight	:	The substance o	r mixture is not classified as oxidizing.
	Particle	Ū	:	Not applicable	

SECTION 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.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.





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<u>Comp</u>	onents:		
.beta.	-Cyclodextrin, sulf	obutyl ethers, sodi	um salts:
	•	: LD50 (Rat):	
	conazole:		
Acute	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
		LD50 (Mou	se): > 3,000 mg/kg
Acute	dermal toxicity	: LD50 (Rat):	> 2,000 mg/kg
Skin o	corrosion/irritation		
Not cla	assified based on av	ailable information.	
Comp	onents:		
Posad	conazole:		
Specie	es	: Rabbit	
Result		: No skin irrit	ation
Specie		: Rabbit Mild eve irri	tation
Specie Result	es t	: Mild eye irri	tation
Specie Result	es	: Mild eye irri	tation
Specie Result Respi Skin s	es t ratory or skin sens sensitization	: Mild eye irri	tation
Specie Result Respi Skin s May c	es t ratory or skin sens sensitization ause an allergic skir	: Mild eye irri	tation
Specie Result Respi Skin s May c Respi	es t ratory or skin sens sensitization	: Mild eye irri sitization n reaction. n	tation
Specie Result Respi Skin s May c Respi Not cla	es ratory or skin sens sensitization ause an allergic skir ratory sensitization	: Mild eye irri sitization n reaction. n	tation
Specie Result Respi Skin s May c Respi Not cla <u>Comp</u>	ratory or skin sens sensitization ause an allergic skir ratory sensitization assified based on av	: Mild eye irri sitization n reaction. n vailable information.	
Specie Result Respi Skin s May c Respi Not cla <u>Comp</u> .beta.	ratory or skin sens sensitization ause an allergic skir ratory sensitization assified based on av	: Mild eye irri sitization n reaction. n vailable information.	
Specie Result Respi Skin s May c Respi Not cla <u>Comp</u> .beta. Asses	ratory or skin sens sensitization ause an allergic skir ratory sensitization assified based on av oonents: -Cyclodextrin, sulfe	: Mild eye irri sitization n reaction. n vailable information.	um salts:
Specie Result Respi Skin s May c Respi Not cla Comp .beta. Asses Posac Test T	ratory or skin sense sensitization ause an allergic skir ratory sensitization assified based on av <u>conents:</u> -Cyclodextrin, sulfor sment conazole: Type	i Mild eye irri sitization n reaction. n vailable information. obutyl ethers, sodi i Probability of : Magnusson	um salts: or evidence of skin sensitization in humans -Kligman-Test
Specie Result Respi Skin s May c Respi Not cla Comp .beta. Asses Posac Test T	ratory or skin sense sensitization ause an allergic skir ratory sensitization assified based on av <u>conents:</u> -Cyclodextrin, sulfor sment conazole: Type s of exposure	i Mild eye irri sitization n reaction. n vailable information. obutyl ethers, sodi i Probability o	um salts: or evidence of skin sensitization in humans -Kligman-Test

Not classified based on available information.



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<u>Comp</u>	oonents:					
Posa	conazole:					
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)		
			Test Type: Chror Result: negative	nosomal aberration		
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone n Application Route Result: negative	narrow		
	nogenicity					
Not cl	assified based on availa	able	information.			
Comp	oonents:					
Posa	conazole:					
	cation Route sure time t	: : : : : : : : : : : : : : : : : : : :	Rat oral (feed) 2 Years positive The mechanism of	or mode of action is not relevant in humans.		
	cation Route sure time	:	Mouse Oral 2 Years			
Result Remarks		:	positiveThe mechanism or mode of action is not relevant in humans.			
Suspe	oductive toxicity ected of damaging the u conents:	nbo	rn child.			
	-Cyclodextrin, sulfobu	ityl	ethers, sodium sa	alts:		
.beta	o on fortility		Test Type: Fertili			
	s on fertility	:	Species: Rat	y e: Intravenous injection		
Effect	s on fetal development	:	Species: Rat Application Route Result: negative Test Type: Embry Species: Rat			
Effect		:	Species: Rat Application Route Result: negative Test Type: Embry Species: Rat Application Route	e: Intravenous injection vo-fetal development		

Application Route

Exposure time

Target Organs

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			Symptoms: No ef	fects on mating performance.
			Result: negative	
			Species: Rat, fem General Toxicity I	y/early embryonic development ale Parent: NOAEL: 45 mg/kg body weight fects on mating performance.
Effec	ets on fetal development	:	Species: Rat, fem Application Route Developmental To	
			Species: Rabbit, f	oxicity: LOAEL: 40 mg/kg body weight
Repr sess	oductive toxicity - As- ment	:	Some evidence o animal experimer	f adverse effects on development, based on its.
STO	T-single exposure			
	classified based on availa	able	information.	
STO	T-repeated exposure			
Caus				rrow, Kidney, Liver, Nervous system, Repro- sure if swallowed.
<u>Com</u>	ponents:			
Posa	aconazole:			
	es of exposure	:	Ingestion	
Targ	et Organs	:	Adrenal gland, Bo	one marrow, Kidney, Liver, Reproductive
Asse	ssment	:		o organs through prolonged or repeated
Repe	eated dose toxicity			
Com	ponents:			
Posa	aconazole:			
Spec		:	Rat, female	
LOAI Appli	cation Route	:	5 mg/kg Oral	
Expo	sure time	÷	6 Months	
Targ	et Organs	:	Adrenal gland, Lu	ngs, Heart, Liver, spleen, Kidney, Ovary
Spec LOAI		:	Dog 3 mg/kg Oral	

Oral

:



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		со	rd, lymphoid	tissue
Exposi		: 15 : Or : 11	Months	Adrenal gland, Lymph nodes, Blood
Exposi		: Or : 56 : Ac	mg/kg ral 6 Weeks drenal gland,	Bone marrow, Kidney, Nervous system, gland, Testis, lymphoid tissue
Exposi		: 18 : Or : 12	Months	ntestinal tract, spleen
Exposi		: 8 r : Int : 1 l	onkey mg/kg travenous Months ardio-vascula	r system, Lungs, Adrenal gland, Blood
Acnira	tion toxicity			

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Posaconazole:

Ingestion

: Symptoms: Cough, Headache, Nausea, Vomiting, Fever, Liver effects, Rash, pruritis, Diarrhea, hypertension, neutropenia, electrolyte imbalance

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

.beta.-Cyclodextrin, sulfobutyl ethers, sodium salts:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 220 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 96 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h



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	Posaco	onazole:				
	Toxicity to fish		:	 LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.95 m Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility. 		
		v to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.276 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.509 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te		
		v to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 21 Method: OECD Te		
	Toxicity	to microorganisms	:	EC50 (Natural mic Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition	
	Persist	ence and degradabili	ty			
	Compo	onents:				
	Posaco	onazole:				
	Biodegi	radability	:	Result: Not readily Biodegradation: 5 Exposure time: 28 Method: OECD Te	50 % 5 h	
	Stability	y in water	:	Degradation half I Method: OECD Te		
	Bioacc	umulative potential				
	Compo	onents:				
		onazole: umulation	:	Species: Lepomis Bioconcentration f	macrochirus (Bluegill sunfish) actor (BCF): 20	



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		N	/lethod: OECD T	est Guideline 305
-	Partition coefficient: n- octanol/water	: lo	og Pow: 4.15	
I	Mobility in soil			
9	Components:			
I	Posaconazole: Distribution among environ- nental compartments	: lo	og Koc: 5.52	
	Other adverse effects No data available			
SEC	FION 13. DISPOSAL CONSI	DERA	TIONS	

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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 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 Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.



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The in AICS	gredients of this proc	duct	a re reported in th not determined	e following inventories:
DSL		:	not determined	
IECSC	;	:	not determined	

SECTION 16. OTHER INFORMATION

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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 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

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/





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The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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